

Between my times of "gainful employment," I have been busy: I have lifetimes worth of work already on the "back burner" waiting for me to have the time and resources to get to them - and I'm constantly inventing more. Rather than pursuing a J.O.B.<sup>i</sup>, per se, I would much rather find a mutually beneficial investment in one or more of the projects I have on the table: Besides giving the investor a respectable return, their funding would help me to turn some of my backlog into profitable revenue streams, and to get on the other side of the hiring manager equation: There is more work here than I could possibly do myself, if I got "too much" funding, I would need to start hiring people, a problem I'd really like to have.

Some of the projects I'm currently working on:

## **The L5 Development Group**, <http://L5Development.com>

The objective of this project is design, construction and habitation of space colonies in the shortest possible time frame, to allow expansion of the human race beyond current terrestrial limitations, and to allow independent living groups the opportunity to decide their own fate. I do not foresee realization of this goal within the present government-structured space programs, so I'm working toward achieving it through for-profit commercial enterprises.

In summary, [the plan](#) is to build a minimal base on the Moon to launch lunar materials into space. Once enough rocks are accumulated at L5, we install smelters, etc. - the whole ore to girders, panels, rivets and screws tool chain - and build space colonies, which are completely self contained cities for 10,000 people with closed ecosystems, open air spaces, and spin gravity. The colonists will build solar power plants eleven miles across, drop them into geostationary orbit to beam power to the ground, and pay for the whole thing at ten cents per kilowatt-hour.

This is the 30 year \$50 trillion ultimate driver behind everything I am doing: I want to move off-planet, and make a lot of money in the process. One way or another, all of my projects build toward this goal.

Included under this umbrella are several smaller sub-projects:

- **L5 Condos**, <https://L5Condo.com>

People living and/or with shops in the L5 colonies are going to want to own the spaces they are using. There's an existing and well-established business model that supports the required real estate transactions: sale of condominiums for residences or business use. L5 Condos will be the marketing and sales agent for those properties.

One desirable step toward completing this project is securing the domain name L5Condos.com (plural of "condo") for a better marketing position. The domain name is currently being used as an invisible redirection page for Line5Condos.com which is marketing a condominium development in Toronto. Since the L5Condos.com domain name isn't actually being visibly used, it will hopefully be able to be bought from its current owners at a reasonable price.

The L5 Condos site is a ground-up development effort currently under way. A "flash sale" of the first 100 units is currently under way, with the first marketing being done through a [LinkedIn post](#). Securing the first three sales with deposits of \$10,000 each is expected to make the effort self funding in the near future.

- **The Face (movie project)**, <https://TheFaceMovieProject.com/>

The Face movie project relates to the "eroded hill" terrain feature in the Cydonia region of Mars originally imaged by the Viking 1 mission in 1976. A brief overview is done, and I'm working on a storyboard outline for the initial movie. Please contact me to sign an NDA for more details.

- **Race To Space**, <https://RaceToSpaceProject.com/>

The Race To Space project is a novel approach to popularizing the only long-term solution for the looming end-of-oil crisis. **Race to Space** merges predictive fiction with a solid development plan to entertain and educate in an effective way. ("*soon to be a major motion picture...*")

An initial presentation of the site is in place, including a page for visitors to [pre-order a copy of the book](#) prior to its publication, currently expected in 2023. There is also [an Investors page](#) with a PowerPoint presentation of more details about the project - basically a funding deck.

I am intermittently working on the Race to Space book, and could have it ready for publication by mid 2023 if funding is available. The screenplay for the movie version is currently just a concept, but could be done in parallel given the right resources. I have a spreadsheet outlining the development and production costs, please contact me for the details.

- **The Nebula Prize**, <https://TheNebulaPrize.com/>  
*The Nebula Prize™ is funded by a consortium of parties interested in establishing humanity as an interplanetary species. To encourage efforts to reach that goal, The Nebula Prize™ is offering a reward of one billion US dollars, payable to the first organization that establishes a permanent, self-sustaining human settlement of at least one thousand individuals, separated from Earth by a distance of space.*  
 The Nebula Prize™ is, in fact, a central feature of the Race to Space book, although I would be quite willing to develop it (perhaps with a different name) into a stand-alone project of its own. Please contact me to further discuss the matter.
- **Space History Newsletter**, <http://SpaceHistoryNews.com>  
 Space History News is a daily newsletter sent to subscribers at noon GMT (7AM EST/8AM EDT) reporting what happened "[Today in Space History](#)." In addition to generating publicity for L5 Development, the intent is to sell advertising and generate revenue from linked products.  
 I built the database underlying the newsletter in 2004-2005, then didn't do much work on it for many years. Over the past couple of years I have been spending an average between an hour and two hours a day updating the entries, adding referential links and further details. I have also intermittently added some new entries, but a significant effort is needed to expand the coverage: This is a project that could easily keep at least one historian employed full time.  
 The Space History Newsletter is currently in a [subdirectory](#) on L5Development.com. It needs to move to its own site, the work is partially complete. It also needs marketing, and advertising development. I expect it to take at least a year and \$125,000 before it starts to make a profit, with a staff of at least one historian and one developer supporting the work.
- **Space Power Now**, <https://SpacePowerNow.org>  
 We are going to run out of oil. If we don't do something about it *now*, it will happen before we *can* do something about it. Electricity delivered from solar power satellites in geostationary orbit is the only grid-level solution that can really be expected to match current needs and anticipated growth of energy consumption. This site is designed to disseminate that message, and to further solicit participation in the L5 Development project as a whole.  
 A preliminary presentation of the site is online, but a lot more work needs to be done as its development plan at <https://SpacePowerNow.org/plan.php> notes, first with serious marketing: Space Power Now is not a "non-profit organization," it is a public awareness arm of The L5 Development Group, which is a privately funded, for profit, commercial space exploration and development program. As such, contributions are not tax deductible, they are an investment in the future of humanity. In the current socio-political environment, the concept will be a hard sell, but one I believe important to the future economic health of civilization. Consequently, part of what this site must do is educate the public to see that Capitalism really is OK. One measure of that effort's success will be the resulting influx of funds through the [Buy Bonds](#) campaign.  
 This is an open-ended project, its mission will not be achieved until power is flowing from space into the world's electric distribution grids. However, a modest investment of \$50,000 and six months of work into building an active community could attract enough other funding to launch the rest of the system in a self-sustaining manner.
- **L5 National Bank**, <https://L5NationalBank.com>  
 The L5 National Bank™ is going to be the premier banking institution at and for The L5 Nation. It will be offering a full range of financial services to its community and other entities wishing to do business within The L5 Nation.  
 The L5NationalBank.com web site is currently only a lightly developed shell. The full banking system behind it needs to be constructed. Also, with many of my other projects, I offer matching fund "L5 dollar" deposits in the L5 National Bank as an additional incentive for early participants, to make the projects more attractive. In summary, the plan is to:

  - build the systems necessary to maintain and show balances with a level of security appropriate for banking transactions
  - create accounts corresponding to all of the contributions that have been received
  - establish the organizational and legal frameworks necessary for issuing bonds recognized as valid financial instruments
  - convert all existing deposits to bonds

I expect this project will need several million dollars to complete, and will require a significant staff to operate and maintain it. In order to adequately support dependent projects, I would like to have the Bank

operating in less than a year's time, accelerating the development work can be expected to increase the budgetary requirements.

- **Flying Squirrel Space Jumper**, <http://FlyingSquirrelSpaceJumper.com>  
Professor Dava Newman at MIT is working on a [form-fitting spacesuit](#) I want to combine with a [wingsuit](#) then jump out of a suborbital spaceship at the peak of its trajectory. (NDA required for more details.) This project needs on the order of \$10 million and 2-4 years to finish, most of the money will be for the spacesuit development, and a substantial part for the spacecraft flight.
- **Luna Robots**, <http://LunaRobots.com>  
This project will begin its life as a video game where participants are driving robots on the Lunar surface, either as entertainment or as a training exercise. (NDA required for more details.) An investment of \$400,000 and a year of development by a small staff of dedicated programmers would realistically be needed to get to where this project is generating revenue. Later development phases will require hundreds of millions of dollars to complete, but there is a high probability the whole thing will be self-funded once the initial revenue system is in place.
- **L5 Business**, "The site for L5 business development", <http://L5Business.com>  
Currently a WordPress stub implementation, this site is intended to be a news and resource center for business efforts related to building colonies at L5, and businesses conducted there. Revenue is expected to come from payment of membership fees, advertising, and commissions on the sales of goods and services.  
Building this site into a useful resource could reasonably be expected to take a year, requiring a budget of \$125,000 to complete.
- **SpaceColonists.com**, "The social point for the off-world crowd", <https://SpaceColonists.com>  
SpaceColonists.com is a targeted social network, an information and resource exchange, and a community and support group. It is a focus point for people involved with, or interested in being involved with, building and living in space colonies. (Think: Facebook for astronauts)  
This site will not be free to join: Membership fees increase the quality and integrity of the community, help weed out "tire kickers" from serious participants, and help cut down on spam: users who pay for their membership are much less likely to abuse their privileges. The objective is not to make the cost of entry prohibitive for willing participants, but rather to ensure members have a reasonable expectation of success in dealing with each other.  
In addition to the nominal membership fees, revenue for the site will come from advertising, and from commissions on the sales of goods and services.  
SpaceColonists.com currently only has a stub home page. Development into a functioning and useful site, and conducting the necessary marketing to draw enough of a membership to make it self sustaining, will probably require a year and \$125,000.
- **Interplanet Dating**, "Find a mate from any of the inhabited worlds", <http://InterplanetDating.com>  
Interplanet Dating is designed to be a dating service for people who are involved with building human presence beyond Earth, for anyone living on another planet or in a space colony, or for those interested in being a member of one of those groups.  
As with SpaceColonists.com, membership in this site will not be free, for similar reasons. This site will also use a similar revenue model. The differentiating factor between the two sites is this one is specifically aimed at members looking for a dating relationship, and SpaceColonists.com is a general community site.  
InterplanetDating.com is currently only minimally developed. Building a fully functioning and useful site, and conducting enough marketing to draw a level of a membership to make it self sustaining, will probably require a year and \$125,000.
- **L5 Colony**, "News and info about building colonies at L5", <http://L5Colony.com>  
Prior to construction and habitation of the L5 space colonies, this site will primarily be focused as a news source regarding the development and construction efforts. Once the colonization is under way, it will become the main source of information regarding population, infrastructure and community, and the on-going colonization effort: In general, this site is intended to be about the *people* and *physical property* of the colonies, as opposed to the *government* thereof.  
L5Colony.com currently is only minimally developed. Fleshing it out as a functioning and useful resource could be accomplished in six months, and for less than \$100,000. Since it is mainly intended to be a source of news and information, most of the return on the investment will be from marketing the related

projects, rather than direct income. Revenue from the site could be enhanced by carrying advertisements, and from commissions on products sold through the site.

- **L5 Nation**, "The government of The L5 Nation", <https://L5Nation.com>  
**The L5 Nation** is an off-world political, social and economic entity whose populace and government are living in exile on Earth pending construction of its homeland at the Earth-Moon [L5 point](#).

Prior to actual construction and habitation of the L5 space colonies, this site will initially focus on securing international recognition of The L5 Nation. Operating as a government in exile, The L5 Nation must obtain diplomatic immunity for its citizens to protect their rights to be truly effective.

L5Nation.com focuses on government within, citizens of, and international relations with The L5 Nation. This site is the sole authorized source for L5 Nation passports and other official documents. It is the main contact point and official channel for international relations with The L5 Nation, and the primary agent for securing international recognition of the Nation and the sovereign status of its citizens. The site also has a list of the [L5 national holidays](#) we celebrate.

The efforts undertaken through this site will be the primary source of our national identity, building over time as more and more of Earth's governments come to recognize our own independence. This will not be a trivial task, as the long history of humanity's development attests, but it is an effort that will be worth all of the work when its goals are achieved.

Construction of the L5Nation.com *web site* into a useful resource is a relatively finite effort that could be accomplished in six months, and for less than \$100,000. The larger effort of changing The L5 Nation from an interesting idea into a real, living entity is a lot more work, a process without a real end point. The campaign of "simply" getting established Earth governments to recognize The L5 Nation as an independent entity will probably take many years at a cost that cannot really be predicted. Establishing embassies and securing other necessary extraterritorial properties will likely cost tens, or even hundreds, of millions of dollars. Building secure facilities to produce passports and other official documents that cannot be readily counterfeited will easily cost millions of dollars (probably tens of millions) and take several years. In the end, the cost of establishing the *government* of the L5 colonies will likely come to match a significant percentage of the *hardware* costs of building the physical colonies themselves.

## A generic domain system, <https://PHPGenericSites.com>

I'm writing a system for monetizing a portfolio of undeveloped domain names. (I own about 400 domain names at present. Most are unutilized, and would be running under this software except that the server supporting it is currently offline.) Once complete, the system will present relevant advertisements on the landing page for each domain to generate ad revenue, offer those for sale that I want to or would be willing to sell, and provide forms to allow visitors to request more information, or to inquire about development arrangements or progress.

This project is mostly complete. Besides getting the server back online, it only requires development of advertising profiles that will present the ads on the landing pages of the sites. Note that development of the ad profiles also involves collecting the links that will be presented by the ad profiles.

Once finished, in addition to using it to generate revenue from my own domain portfolio, I intend to offer the system for sale to other Internet real estate investors, requiring completion of the project's web site.

I expect this project is 3-4 months from generating noticeable levels of revenue, and needs a budget of \$30,000 to get it there. It will probably be 6 months before I achieve the target of \$20/month per site.

## Photo by Fred, <https://PhotoByFred.com/>

I've been posting a new picture each day since October 26, 2004 - the site now has over 6545 pictures of the day on (as of September 2022). Watermarks and copyright statements have always been in either the top left, top right or bottom left corners - the bottom right corner is reserved for sponsor logos. Originally started as a hobby, I have come up with various ways to monetize the effort I have put into it.

- **Photo by Fred - The Movie**

I'd like to create a "flip book" movie showing all of the pictures presented on PhotoByFred.com, in succession. With an average display of 1/3 second per image, the movie would already be more than thirty-six minutes long. (Even showing the frames at a TV-standard rate of 30 frames per second would yield a film over three and a half minutes long!) Besides the appeal of the artistic aspect of the endeavor, the film will be an excellent tool for marketing Photo By Fred and its sibling sites. DVD sales and online streaming or downloads could also generate some revenue, but are not expected to be a major source of income. As noted above, the lower right corner has been reserved for sponsor logos: Separate segments of the movie could be licensed for stand-alone advertising (e.g., television commercials).

As stated on its project page at <https://PhotoByFred.com/pbfmovie/>, I'm working on a Kickstarter campaign, seeking crowdfunding of the development. I would also be open to working with an executive producer willing to fully fund or fund a substantial portion of the development effort.

I expect this project needs \$35,000 and 3-4 full time work months before it generates revenue.

- **Limited Edition Photo**, <https://LimitedEditionPhoto.com/>

This site offers limited edition prints of the photographs on PhotoByFred.com for sale, either for private collection and display, or as an investment opportunity. The prints are signed, numbered and printed on archival quality paper with permanent pigment-based ink. Prints are offered either matted, or framed in any of a variety of styles.

The supply of prints is limited to twenty-five copies of each image. The first fifteen copies in each set are offered at a fixed base price, while the next seven are priced incrementally higher. The final three prints in each set will be sold at auction on this site. Current pricing and auction information is shown on the page for each individual image.

Development was nearly completed in 2007 before I was distracted by taking yet another job. At this point, in order to make it functional, the site's code needs to be thoroughly reviewed, and made mobile friendly. The current database code is not transactional (functionality that wasn't available in MySQL in 2007) and much of it needs to be rewritten. In addition, the payment processing code needs to be readdressed to incorporate new and updated payment options that are now available. Once the development is complete, an appreciable marketing effort will be required to get the site to have the necessary critical mass of awareness to be self-sustaining.

I expect this project will need 3-4 full time developer months before it is complete enough to start generating revenue, and another 2-3 months of marketing before it shows a return on the investment, with a budget of \$75,000.

- **Puzzle by Fred**, <https://PuzzleByFred.com/>

This site will offer some of the pictures from PhotoByFred.com as [1000 piece] jigsaw puzzles. Development is partially complete, and I did some research regarding puzzle manufacturers. I put together a portfolio of sample pictures and sent several CD copies to prospective vendors, but didn't get the right interest to move the project forward. I also published the portfolio on the web at <https://PhotoByFred.com/PuzzlePortfolio/>, with the index page illustrating the sample photos at <https://PhotoByFred.com/PuzzlePortfolio/1024/index.htm>.

I expect this project will need 4-6 months of full time work before development is sufficiently complete for it to start generating revenue, another 2-3 months of marketing before it shows a return on the investment, and a \$100,000 budget including funds for initial stock procurement.

- **PbFpaper™**

I wrote on a client/server application to update a subscriber's Windows desktop with the picture of the day, a project that kept growing due to scope creep. Development stalled at about 80% complete, four alpha instances are currently running. This project needs to be ported to other operating systems and mobile devices to remain relevant.

The server code for this project needs to be finished. A pared down set of apps with a common look and feel needs to be developed for iOS and Android devices. A trimmed initial production release of the Windows client needs to be completed and ported to OS/X, Linux and FreeBSD (at minimum). Once development is finished, a fair amount of marketing work will be needed to make it profitable. One option would be teaming up with ISPs who would add it to their portfolio of differentiating features, given to their customers as an added benefit of using their service.

The development effort for this project is likely to be at least a man-year of full time work, marketing could easily be expected to require a few months after that. Completing this project would need an investment of \$150,000 before it started to show a profit.

- **Poster by Fred**, <https://PosterByFred.com/>

This site will offer some of the pictures from PhotoByFred.com as [motivational] posters. I have not done any significant development work on it, so it would be a full ground up construction project. The development and marketing requirements are about the same as for Puzzle by Fred, much of the code from that project could be used here. The stand-alone project budget is a man year and \$175,000 for development, marketing and initial inventory; as a parallel effort it would add three months and \$50,000 to the Puzzle by Fred requirements.



## The Original Prototype, "Where Ideas Become Reality", <https://TheOriginalPrototype.com>

The Original Prototype has been established as an engineering and design center for electronic, mechanical and electromechanical systems. Examples include hand-held devices, robotics, stereo vision equipment and miniature machines. We have expertise available to bring your concept into reality, potentially including support for short run production.

The basic concept behind this business is if someone has an idea for an invention, product, etc., we will build *the original prototype*. I have an extensive background in hardware and software development, and tools and machinery I can apply to a wide variety of customer projects. As customer requirements grow, I would expect to hire additional staff and capabilities as needed.

I bought a desktop CNC machine in 2012 to facilitate manufacturing precision parts. It turned out to not be a stand-alone machine one feeds an AutoCAD drawing to produce an item as advertised, but simply the mechanism for moving the tool and optionally rotating the workpiece - the brains of the robot must be supplied by the user. Therefore, getting it to actually be useful will require additional work: Besides studying AutoCAD to enhance my drafting skills, I have to build a controller to operate the machine in order to use it, an effort likely to take a month and \$15,000 to accomplish.

Some of the projects under way or planned for this business include:

- **Vaper Hardware Company**, an innovative e-cigarette (vape), <http://VaperHardware.com>  
With a revolutionary patent pending concept and design, the Vaper Hardware Company is developing the next generation of vapor smoking apparatus. The novel design will bring a completely new experience to the enjoyment of smokable products. This device is applicable both to traditional tobacco-based materials, and to other "new market" products currently being legalized across America.  
The architectural design of this system is reasonably complete, a provisional patent application was filed in October 2016 based on that information. Implementation details for the initial prototype are being worked out, and some proof of concept models have been constructed for parts of the device. Construction of the full preliminary prototype needs to be done, and software needs to be written before demonstrations can be conducted.  
This project is a development partnership with Henry Steinberg and Ben Gelassen. Our plan is to demonstrate a working prototype to illustrate the concept, then either enter a development partnership to build a production-ready device, license the design, or sell the business to an interested party. Getting to where we can demonstrate the device is going to take 4-6 months, and will require another \$75,000, including legal fees.
- I have a number of projects related to **stereo vision** that I would like to develop. (NDA required for more details.) Time and money budgets vary.

## Clothing sales sites:

- **FredLines T-Shirts**, "T-shirts For the Thinking Mind", <http://FredLines-Tshirts.com>  
Between 1997 and 2000, I was going out dancing several nights a week. On Saturday nights, I would call up the local T-shirt shop and have them make a new message shirt design for me. People asked me where they could get the shirts, and the idea of FredLines was born.  
The site was initially built in 1997 using PerlShop, a Perl program that didn't need a database to operate. At the time, that was an advantage where my hosting company didn't have a database package installed for customer applications. I made a number of modifications to the PerlShop code to get it to work as needed, and started building pages for the 180 T-shirt designs in my portfolio before being interrupted. In 2012, I started a complete overhaul of the site, working on rewriting it from the ground up using PHP and MySQL. Again I was interrupted, without getting the new PHP site finished enough for public presentation.  
At this point, roughly 24% of the pages for the shirt designs have been written. The conversion of the public facing parts of the sites to PHP is about 44% complete, and the Admin section is approximately 76% complete. In addition to the web development work, an investment in a shirt manufacturing capability is needed, and new marketing efforts need to be put in place. To make this project profitable will require at least 6 months of work and \$75,000 of funding.
- **The Skirt Store**, "Just say NO to pants!", <http://TheSkirtStore.com>  
Fashion is big business with lots of money going to successful retailers. In most cases, I find women in skirts more attractive than ones in pants, so I want to promote the style, making a substantial amount of money in the process. In addition to TheSkirtStore.com, I have a "cloud" of related domain names

targeting a variety of specific markets, e.g., [BlackDenimSkirt.com](http://BlackDenimSkirt.com), [GothSkirts.com](http://GothSkirts.com) and [ThePencilSkirtBoutique.com](http://ThePencilSkirtBoutique.com), to use as landing pages to increase sales.

This project is barely more than a stub web page: I have spent a lot of time thinking about how to build it and its network of related sites, but haven't had time to spend on implementing it. As a result, it is a ground up development project that will probably need a man year and \$250,000 to reach profitability. The effort would be substantially accelerated by hiring additional staff.

Besides the projects I'm nominally working on described above, there are many others I am actively interested in pursuing, including:

**Establish a domain name registrar:** Internet domain names represent valid addresses when they are recorded in the database of a domain name *registry*. *Registrars* provide the public interface for adding, updating and renewing registry database entries, collecting the lion's share of the annual fees that must be paid to maintain ownership of a domain name. A close examination of the Terms of Service of all of the registrars I've encountered includes a clause basically saying "if we don't like what you are doing with your domain, we can confiscate it and give it to someone else who may do essentially the same thing as you are."

Rather than paying another registrar to provide my interface with the various registries, I would prefer to have other people paying *my business* for the services, which would let my domain registration change from being a cost center to a profit center. Leaving the seriously offensive clause out of the Terms of Service would also offer domain owners a real advantage in using my service.

Setting up a domain name registrar is likely to take 4-6 months and \$75,000, including ICANN fees. In addition, access to working capital of at least \$70,000 must be shown in the application process. Once ICANN has accredited a registrar, marketing the service needs to be done to attract a sufficient volume of business, a process which could take another 6 months and cost \$75,000 to achieve profitability. However, once it becomes self-sustaining, this business is practically a license to print money.

Looking beyond making a domain name registrar business profitable, I am also interested in eventually establishing a new domain name registry, but a few other things need to fall in place before that becomes a reasonable point of discussion.

### Projects in **micro and nano robotics**

- a *pore cleaning vacuum device* individuals could use to safely relieve the pressure of infected pores commonly associated with acne, ingrown hairs, etc. (NDA required for more details.) Building an initial prototype would take a staff 3-4 years and cost over a million dollars.
- a *personal dental drill* to discover and treat cavity-forming processes and other problems. (NDA required for more details.) This is another multi-year, multi-megabuck level project, especially when taking into account FDA and other regulatory requirements.
- *fully functioning miniature factories* for model railroads. (NDA required for more details.) Time and monetary budgets vary.
- a *community scale model railroad*. I have been a rail fan for as long as I can remember. A couple of times I had a model railroad layout set up, but never one that survived moving, or one well enough established that it didn't *have* to move. Now with a considerable inventory of N scale rolling stock, track and scenery on hand to put into the project, I would like to change <http://ModelCityRailroad.com> from being "planned for development" to something people could actually visit and get benefit and/or enjoyment from. With microminiature POV (point of view) cameras mounted in the engine cabs or cars, visitors (either locally or via the web site) could be given the opportunity of seeing what it looks like to run a train, or experience a ride through the layout, in real time. In addition to giving its members the joys of building the railroad and running it together, the layout could be used to test communication and automatic control systems. The fully functioning miniature factories mentioned above would be a great addition to the layout, but aren't necessary to make the project interesting to a wider audience.

**Secure research grants** for areas of study where I have ideas to investigate. My intent in getting the grants would not be so I could undertake the work directly, but rather to enable building a qualified team with the appropriate skills who could test the relevant theories.

- *age related eye degradation*. One of the primary reasons people have trouble focusing as they grow older is the lenses in their eyes become less flexible, making it harder for the eye muscles to reshape the

lens to adjust its focal length. I have an idea that may explain why this happens, which could potentially lead to a solution for the problem. (NDA required for more details.)

- *find a genetic "Rosetta stone"* that would enable us to interpret DNA code. Unlike binary data in a computer program where each bit (*binary digit*) is only one of two values, DNA sequences are composed of nucleotides that will be one of two base pairs with either of two orientations. As a result, each nucleotide "digit" in a DNA sequence can be one of four values. That means a DNA sequence contains twice as much data as a binary bit stream of the same length - but just as binary bit streams can be computer programs or simply data, DNA is either instructions for a cell to operate or data used for running the biological "program" encoded in the DNA chain.

The *Rosetta Stone* is an Egyptian artifact that was found to be an interpretable record that gave us a key to understanding the rest of the ancient hieroglyphics. That enabled us to read antique documents whose meaning could previously only be guessed. A similar piece of genetic code needs to be found, perhaps through examination of the DNA in a virus, that will enable us to interpret the rest of the genetic world.

Of course, finding *one* genetic Rosetta Stone may not be enough: It's very possible some of the DNA sequences we encounter will be written in FORTRAN, others in C++ or Pascal ...

- I have some ideas related to the purpose and function of *telomeres* that may be worth looking into, with the potential of revolutionizing medical science. (NDA required for more details.)

If you are interested in pursuing any of these projects, or know of someone who would be, please contact me as soon as possible so we can advance discussions on the matter.

Fred Koschara

**wfredk@** any of the domains mentioned in this document

c: 617-792-4320

<https://www.linkedin.com/in/fredkoschara>

---

<sup>i</sup> As an MLM marketer once commented, J.O.B. is an acronym for "Just Over Broke" - except for extremely rare (an generally unsustainable) circumstances, no matter how much an *employee* makes, the *employer* always makes much more.