

John J. Williams, M.S.E.E.

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HOME & OFFICE TUTORING SERVICES

Dear Sir or Madam:

Hello. We offer professional and private home tutoring services and office tutoring services. As a professional home/office tutor, I am versatile and open-minded, and hands-on teach numerous unusual technical subjects, as well as more traditional classes in technology, science, math, computers, business, legal research. I am highly qualified (but not licensed) to teach many different types of engineering, scientific, business and legal areas. I will come to your home or office to teach you. I am a big believer in confidentiality: I will not reveal our teacher/student relationship unless it is OK with you, you or someone else reveals it, or I am legally required to reveal it.



I have years of technical research, design and development experience and knowledge primarily with computer, electronic and electrical devices and systems and secondarily in mechanical devices and systems. And I definitely "think out of the box." For an idea of the kind of high-tech work I have been doing over the years, please refer to: www.consumertronics.net and www.lonestarconsultinginc.com. Because I do not have a teacher's license or certificate and we are not a recognized school, what I teach you will not result in any academic credit (nor do I issue grades) - just a lot of knowledge. I teach a lot of specialized knowledge not likely taught anywhere else.

My professional technical knowledge and experience are with numerous types of high-tech devices, systems, applications and technologies - including computers, power/energy, control systems, high-voltage, electromagnetic, medical/biomedical, security/surveillance/antitheft, military weapons systems, microwave/radar laboratory/weapons-type devices, communications, optical, sound (audio/infrasound/ultrasound/sonar), light (visible/infrared/ultraviolet/laser), consumer electronics, aircraft/missile guidance systems, technical writing. My technical knowledge and experience is also highly varied, for examples, my researches into the design of Khufu's (Cheops's) Pyramid, mitigation of tsunami destruction, and improved designs of armor for military vehicles to resist IED destruction (my nephew was recently killed in Iraq, in a Humvee, by an IED).

I am also a prodigious eBay seller, primarily specializing in electronic, computer, scientific, industrial, shop and commercial equipment, tools and parts in which I have tested, troubleshot and repaired 100s of these highly varied high-tech Items (many of which came from Sandia Labs, Los Alamos, Intel and other high-tech entities) to sell them (my eBay rating as "troodont" is 1,000+).

In addition to my prodigious and diverse engineering and scientific qualifications, I also have extensive and diverse business experience, having founded, run and am running Consumertronics and Lone Star Consulting, Inc. for years (I incorporated LSC by myself, 2000). I created and maintain all of our webpages, and create all of our advertisements and other promotions. Furthermore, I am an experienced lay pro se litigant (not an attorney), and have done much legal writing and some legal lecturing relevant to legal issues (see www.consumertronics.net/legal.htm) (I can't provide legal advice - only what I know about legal research).

Should there be some gap in my professional qualifications from what you would like me to teach you, I am eager-to-learn to fill that gap. My professional work history clearly demonstrates that I am a very hard working and creative engineer and scientist with a passion for learning, applying new technologies and solving difficult technical problems. See last page for my **Curriculum Vitae**.

I am a Disabled Veteran and Civil Service retiree (my Government background is primarily in military weapons systems and biomedical). I don't smoke, drink, take illegal drugs or gamble.

To qualify as one of my students, your session home/office must be in the Albuquerque area, I must be knowledgeable about the subject, the subject must be 100% legal, I am available for tutoring session time(s) acceptable to you, and I must feel comfortable dealing with you. My fee is \$60/hr (one student, add \$25/hr each additional student) plus \$1 per mile both to and from my office (near Montgomery and Tramway) to your home or office for each session. All fees are non-refundable. My minimum fee is \$100 per scheduled session. You pay 2/3rds of expected fee in advance. Tax will be added to all payments. Payment is by check, cash, money order, Western Union or credit card (VISA, MC). First session is for one hour. After first session, I will consider additional sessions of 1-8 hours (your session schedule must be acceptable to me), and as many sessions as you think you need. Sessions may include more than one subject. No Sunday sessions. I reserve right to cancel, stop, limit or change any session without liability or loss of fee.

Thank you for your time and attention. Interested? Our first contact is by email: wizguru@consumertronics.net (put "TUTOR INTEREST" in SUBJECT line). In your email, provide your name, physical home or business address, phone number, what subject(s) you want me to teach you, what times are available for you, how many hours you think you need, and any questions you have. I may require additional data to verify who you are (I respond to all emails - if I don't respond within 3 days, email me again; after the 3rd email attempt, you may phone me). Should I accept you as a student, later contacts will include phone/fax/mail contacts as well.

Sincerely,

John J. Williams, M.S.E.E.

EXAMPLE CLASSES BY JOHN J. WILLIAMS, M.S.E.E.

Hello. Below are a few examples of the many classes I can home/office tutor. I will provide free handouts, but some courses require tools, hardware, materials and/or a book which the students will provide or pay for and keep. For technical classes, I will come with my own toolbox. If your proposed class is similar to one of these, then please provide me your edited version of your proposed class. If your proposed class is different than one of these, then please provide me a from-scratch description of your proposed class:

(A) The mechanical and electrical abilities of Americans have seriously slipped in recent years - we are alarmingly sliding into technical illiteracy and incompetence. We are now much more of a wasteful and polluting society which routinely buys and throws things away when they malfunction or get "old," and many do little to maintain or repair the equipment they buy. Many of our high-tech businesses have gone overseas, our work force skilled in the crafts now averages in their mid-50s, and many high schools no longer teach shop classes. Because many people want to improve their technical skills to get better jobs, to save money and/or to waste less, there should be a high interest in these subjects.

(B) By gathering skilled and creative people together in high-tech think tank type environments, important technological problems can be more easily addressed and solved. Since many people love being challenged to solve difficult technical problems, they too should be interested in my classes.

(D) One can never learn too much about thinking and functioning more creatively and efficiently.

EXAMPLE CLASSES

(1) **JOHN'S THINK TANKS: SOLVING IMPORTANT AND INTERESTING TECHNICAL PROBLEMS SERIES**: Below is an initial series of classes, each of which will address important and interesting technical problems. Classes will be repeated as required to propose new solutions and to work on existing solutions until a problem is either solved or at least addressed to the extent a class group can reasonably address it. Students must have sufficient technical knowledge and skills, and have access to their own computers, tools and facilities to safely and satisfactorily undertake and complete unsupervised homework assignments. I suggest that developed solutions be shared with scientists, academicians, public servants and news media whose interests are relevant to addressing such problems. Some suggested problems to start off with:

(a) **Design solutions to providing better armor to military vehicles to protect them from roadside IEDs**: Whether or not a person agrees with us being Iraq or even war in general, virtually all people agree that whenever our troops are put in harms way, they must be provided with equipment which will optimally protect them (my nephew was recently killed in Iraq in a Humvee by a roadside IED). This class will research various forms of high-tech materials with protective armor properties, and suggest how these materials can be combined in innovative ways in common military vehicles like Humvees, APCs and others to provide maximum protection from death and injury to our troops. The class will then write up a final technical report detailing its findings and conclusions.

(b) **Design solutions to mitigate the destructive forces of tsunamis**: In December 2004, almost 300,000 people were violently killed by the Indonesian tsunami. There are practical solutions that can much reduce the death toll and loss of property from future such tsunamis. Reading material is my own comprehensive book on this subject offered to students at \$25.

(c) **Solving "The Riddle of The Ages" - how The Great Pyramid of Egypt was built**: The current most-accepted theory is that some kind of ramp was built to lift the stones, some weighing up to 80 tons, up to the 481 foot top of Khufu's (Cheops's) Pyramid. My theory is that a nearly-centralized hydraulic elevator system was designed to lift the stones, which design was based on the technology of that day. While my theory gives the most credit for smarts and creativity, the ramp theory would require an extremely labor-intensive and inefficient ramp using several times the material used in the Pyramid itself. Students will present their own theory(ies), and a class vote will be taken as to which theory(ies) to pursue, and the students will be given the opportunity to design and build scale models to try to prove or disprove the

chosen theory(ies). Subsection construction will be homework assignments with assembly and testing in the classroom. Reading material is my own comprehensive book on this subject offered to students at \$25.

(2) **HOW TO IMPROVISE AND ADAPT TECHNICAL SOLUTIONS TO OVERCOME PROBLEMS**: Not every tool or hardware item that a person might need is readily commercially available or affordable. New tools and hardware can be improvised and adapted from other common tools, hardware items, and/or materials, and new imaginative uses of tools, hardware and materials can be made. Certain little known but commonly available, relatively cheap hardware and materials can be used to solve a myriad of technical problems many people believe can't be solved or are too expensive to solve. Special topics, such as invention prototyping using commonly available materials will also be addressed, as well as cements, glues and adhesives, heat shrink tubing, etc. Students must have sufficient technical knowledge and skills, and have access to their own computers, tools and facilities to safely and satisfactorily undertake and complete unsupervised homework assignments.

(3) **HOW TO MAINTAIN, REPAIR, MODIFY, ASSEMBLE AND UPGRADE EQUIPMENT**: When equipment malfunctions, often the problem is relatively quick and easy to repair, which saves you the money, time and trouble of replacing it or living with its unsatisfactory or possibly unsafe performance. And some equipment can be modified or upgraded to improve performance (e.g. computers). Some equipment straight out of the box need some assembly to function at all. For each class session, students will propose portable equipment they want to bring to the next session to repair, modify, assemble and/or upgrade. Equipment that cannot be satisfactorily completed will be either brought in again in future sessions. Students must have sufficient technical knowledge and skills, and have access to their own computers, tools and facilities to safely and satisfactorily undertake and complete some classroom hands-on assignments and unsupervised homework assignments. While students need not be experts at using tools, they should be able to safely use common tools such as screwdrivers, pliers, wrenches, Xacto knives, scissors, chisels, saws, drills, reamers, clamps, hammers, punches, files, Dremel tools, glue guns, soldering irons, etc.

(4) **HOW TO DO PRO SE LEGAL RESEARCH**: While having a good attorney does have its advantages, attorneys are very expensive, often don't care about the cases or clients, and some are crooked, malicious and/or incompetent. Often, legal problems can be resolved without attorneys. And knowledge and understanding of the law is critical to many personal, business and professional situations you are exposed to. Note, while I am an experienced pro se litigant, researcher, writer and lecturer, I am NOT an attorney, and I cannot provide legal advice or any other legal service that requires licensing. Legal research from books, Online and the numerous and voluminous law references typically found in law libraries will be covered from finding citations to shepardizing cases; Federal, State and local procedural and substantive law.

(5) **VALUE ENGINEERING TO DERIVE OPTIMUM SOLUTIONS TO DIFFICULT AND COMPLEX PROBLEMS**: Life often throws at us difficult and complex problems, and because many people don't know how to properly analyze such problems, they often guess at solutions which are often not the optimum solutions. "Value Engineering" is a logical and systematic approach to intelligently solving difficult and complex technical and nontechnical problems of many different types by breaking down problems into their basic parts and solution consequences, and positively or negatively "evaluating" each of these components, and then computing and weighing all of their positive and negative components to derive the most cost effective solutions.

(6) **STRATEGIES, TACTICS AND TIPS FOR SHOPPING AT GARAGE SALES AND ESTATE SALES**: Some people shop at garage sales and estate sales because they can get good bargains for their hard-earned money - items they can use themselves or resell for profit. Sellers make some money for their items while the items are recycled for further use, thus saving the environment. It is a win-win situation for everyone. This class will also include possible networking solutions between garage sale and estate sale shoppers so that item types that shoppers find can be tipped off to other shoppers who want those item types but are unaware of the sales, and vice-versa in a mutually beneficial fashion. Special topics, such as garage sale selling, eBay selling, and making minor repairs to bought items will also be addressed.

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CURRICULUM VITAE:

Dynamic and creative Electronics Engineer with over 30 years of electronic circuit research, design, development, modification, calibration, repair, and maintenance, engineering management, systems engineering, technical writing, desktop publishing, website design and promotion, business ownership and management experience relevant to microwave/radar laboratory and weapons-type devices, biomedical, energy and power, high-voltage, electromagnetic, military weapons systems, communications, optical, sound (also including infrasound and ultrasound), light (including infrared and ultraviolet), consumer electronics, security and antitheft, and aircraft and missile guidance systems.

Experience

Consumertronics: Founder - CEO - Director of Engineering (1972 - current)

Research, design and/or development of dozens of devices and systems: Microwave devices, biomedical devices, ultrasonic devices, high voltage devices, metal detectors (includes devices that detect, repel or attract non-ferro metals), signal replicators/injectors, data card reader/writers, security devices and systems, panic alarms, antitheft devices, microwaves, laser, surveillance devices, voice changers, van Eck systems, bug detectors, phone devices, power meter testers, Doppler radar devices (X, K, Ka), stealth coatings, unknown presence detectors, jammers (rf, radar, ultrasonic), electronic stimulators (using Helmholtz coils), electronic weaponry, shielding, remote control systems, energy form converters, vortex devices, neurophone devices.

Wrote and published 150+ books and manuals, mostly on high-tech subjects, including electronics (specifics herein), computers, Internet, phone systems, security, crime fighting, van Eck systems, energy, weaponry/countermeasures, stealth technology, rocketry, medical, biomedical, financial, legal.

Website Design Services using Dreamweaver, PageMaker, Word, PhotoShop, etc.

Sold 1,000s of Items on Online Auctions, mostly electronic, computer, scientific, industrial, shop and commercial equipment and parts, many of which I tested, troubleshoot and repaired (eBay rating 1,000+).

Lone Star Consulting, Inc.: Founder - CEO - Director of Engineering (2000 - current)

Research, design, development of Special Projects/Customized Device devices, systems described above. Technical (Life) Coaching Services.

Website Design Services (including all content on its websites).

Incorporated **Lone Star Consulting, Inc.** myself in 2000 without an attorney.

Lockheed EMSCO: Senior Engineer (1980 - 1983)

Project and design engineer for variety of projects, including digital missile destruct systems (Pershing II), countdown clocks, digital encoders/decoders, comms systems, analog delay line filters (using SADs), semiautomatic wirewrapping controllers, meteorological instrumentation, transducers, detectors, amplifiers, other controllers, and other digital, analog and microprocessor circuits.

Consulted with other engineers and managers on various projects, systems and designs, up to 7 techs.

CIGTF, Holloman AFB: Electronics Engineer (1974 - 1977)

Test engineer responsible for testing and evaluating military aircraft and missile guidance components on high-G, high-V rocket sleds at Test Track.

Designed and developed instrumentation for high-G and high-V rocket sleds and support equipment.

Data acquisition, processing, analysis, computer programming, and writing technical reports.

National Institutes of Health (NIH): Physicist (1972 - 1974)

Designed, developed, repaired, maintained original and sophisticated electronic/electrical/mechanical scientific apparatus for basic drug research, including high-voltage pulse stimulators, biological response indicators, special and complex timing and recording systems, transducers, and auto drug injection systems.

Naval Ammunition Depot (NAD) Crane: Electronics Engineer (1971 - 1972)

Designed, improved complex electronic fuses (16" Naval gun ammunition) to replace mechanical fuses.

Reviewed, evaluated, correlated engineering drawings, specifications, requirements for 2T Cog. ammunition components. Analyzed and evaluated catastrophic failure modes, and test and inspection data, techniques.

Prepared, processed and evaluated engineering waivers, deviations, technical data packages (TDPs), and engineering change proposals (ECPs).

Education

■ B.S.E.E., U.T. El Paso, TX, 1970 ■ M.S.E.E., U.T. El Paso, 1971, GPA 3.75/4.00 ■ Tau Beta Pi Scholar and Fellow ■ Chief Editor, "ENGINEER" magazine (official publication of U.T. El Paso School of Engineering)

Interests

■ eBay Reseller (rated 1,000+) ■ Electronic Hobbies ■ Egyptian Pyramids ■ Fortean Phenomena ■ Law ■ Real Estate, (**Licensed Real Estate Salesperson, NM, 2003**)

Personal

■ U.S. Citizen ■ Married ■ Disabled Veteran ■ Honorable Discharge

I do not smoke, drink, take illegal drugs or gamble. Employee-related random drug testing is fine with me.