

SUMMARY OF QUALIFICATIONS

Experienced in the reduction, analysis and modeling of scientific data; report generation, software modification and documentation; building and maintaining websites; tutoring students.

EXPERIENCE

- BUNKER HILL COMMUNITY COLLEGE 2017-
Mathematics Tutor (Part Time): Tutored students in Statistics, Calculus and Pre-calculus.
- WYZANT 2012 -
Tutor (Part Time): Tutored students in Mathematics, Astronomy and HTML.
- SUPERIOR TALENT RESOURCES, INC. Security Clearance: None 2012
Data Analyst/Programmer (Part Time): Provided information about data from aviation weather test sensors as needed including visibility sensors and reference weather sensors.
- ENGLITY CORP. Security Clearance: None 1991 - 2012
Data Analyst/Programmer: Gathered, archived, processed and analyzed test aviation weather sensor data including: visibility sensors, anemometers, ceilometers, lightning and present weather sensors. The analysis involved programming and maintaining applications using Matlab, C and FORTRAN. The data was presented to customer site personnel. Also analyzed frequency of occurrence of low ceiling/visibility events and analyses of lightning data using MS Access. Prepared related reports and presentations including co-authoring 27 papers presented at conferences and one government report. Supported and maintained beta web site for Otis Weather Test Facility.
- SPARTA, INC. Security Clearance: SECRET 1988 - 1990
Engineer. Supported research in the applied physical sciences including: Atmospheric radiation software, data analysis and calculations, aerosol studies, stratospheric ozone concentrations and spatial variations and optical turbulence, Solar coordinate transformation software and documentation. Prepared related technical illustrations for reports and proposals.
- AERODYNE RESEARCH, INC. Security Clearance: SECRET 1985 - 1986
Applied Mathematician. Supported research in infrared related science including: Reduction of sounding, cloud cover and satellite image data, atmospheric radiation calculations, solar spectra and stellar background evaluation, describing background scenes, calibration of infrared spatial imaging sensor. Prepared quick look flight and sensor calibration reports, data file documentation. Participated in seminars on infrared technology and project management.
- WORCESTER POLYTECHNIC INSTITUTE/MIT/PRIVATE 1978 - 1984
Teaching Assistant/Private Tutor. Part-time; aiding professor, counseling, tutoring students.
- OTHER
- Webmaster of MIT Club of Boston 1999 - 2004
Built website and was webmaster of Calvary Church, United Methodist 1997 - 2004
Built and runs personal website, <http://www.allvidzhaze.com> 2001 -

EDUCATION

- MASSACHUSETTS INSTITUTE OF TECHNOLOGY (1983): M.S., Applied Mathematics
WORCESTER POLYTECHNIC INSTITUTE (1980): B.S. with Distinction, Applied Mathematics

HARDWARE, SOFTWARE AND OPERATING SYSTEMS

MATLAB, R, C, FORTRAN, Pascal, mixed-language programming, HTML, JavaScript, MS Access, Excel, PowerPoint, Word, Adobe Photoshop, Acrobat, Fireworks, Dreamweaver, Flash; Corel Draw, Paint Shop Pro, Sonic Wall, Real VNC, MS-DOS, MS Windows, Novell, CD and DVD writing, FTP, Microsoft Explorer and other web browsers, HP Apollo Domain, UNIX, VIS (Lightning display software), external hard drives, laser jet and ink jet printers, scanners, digital cameras, modems.

PROFESSIONAL ORGANIZATIONS

Member, American Meteorological Society