Glen Carl
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PROJECT MANAGER / SYSTEM INTEGRATOR / SCIENTIFIC APPLICATIONS / PYTHON WEB-CLOUD SERVICES / FULL STACK / DEPLOY TRANSITION / CONTAINERS / CONFIGURATION MANAGEMENT / TESTING / CONSULTANT

· **Glen D. CARL**   **phone: +1 (831)325.6269**

· Objective

· Seeking project management, system integration, software analyst, scientific application and web services software projects for science and research.

· Certifications / Skill Highlights

· **Management:** Project Management Professional (PMP). Priority and iterative approach to completing projects. Communication with all stakeholders is very important. Important to only use the tools and communications for the particular project. Collaborative spirit.

· **Technical:** Strong with Open Source and Unix based systems. Experienced with many web service frameworks, including Cloud Services such as Rumble Cloud, Heroku, and AWS GovCloud. Capable of working with proprietary software systems. Experience with many collaborative services. Fluent in Python programming and PostgreSQL. Full Stack and Full Life Cycle experience. Over 20 year history working with web technology, and scientific software. Able to work with both new and old technology, and most interested in working with technology that best fits the design.

· Education

· **Bachelor of Science**, Aerospace Engineering, University of Arizona

· Continuing Education, University of California, Santa Cruz, California. **C/UNIX Programming Certificate.** Java, Web Services, XML, XSL, SOAP, C\C++, Perl, UNIX System and Shell programming.

· Project Management Institute training via SkillPort. **PMP Certificate 240145**.

· NVC Santa Cruz, Nonviolent Communication (NVC) workshops and classes.

· Federal Aviation Administration, Air Traffic Control Systems seminar.

· NASA Ames, Object Oriented Design and Rapid Prototyping courses, and Total Quality Management (TQM).

· Global Brain, Inc., Quality Rapid Product Development (QPRD) techniques.

· Lutris Enhydra and wireless application development training.

· US Navy training for Python, AWS GovCloud, Management, Information Assurance, Privacy Data, and Operational Security.

· Work Experience

· **2009 - Present, co-Founder, Treasurer, COO and Software Systems Engineer for 0cog Inc.**

· co-Founded 0cog Inc, and established it as a global corporation producing and selling iOS Augmented Reality Applications, is providing new services to facilitate new business ideas and is providing contract services.

· Deployed and engineered many Python Flask web services on the cloud. Developing Rumble Cloud help documentation, and providing consulting services to deploy and build on Rumble Cloud.

· Established eCommerce presence with Volusion, Shopify and Wild Apricot frameworks.

· Established the iPhone deployment and distribution for the iTunes Store.

· Building infrastructure to create new cutting edge technology businesses. Resulted in the co-founding of Showroom LLC and Identity Element, Inc. Research of Cryptocurrencies, and blockchain technology.

· Medical research of immunology, blood cancers and graft to host disease (GVHD).

· Developed and deployed multiple Drupal, Heroku, and other web sites for businesses.

· Prototyped a Wordpress µ site, and experimenting with Python, PHP and Ruby Rails for some proprietary projects. Developed and managed Wordpress site for a client, and 0cog corporate site.

· Consultation and advisement to entrepreneurs, project managers, and software developers.

· **PROJECTS OF SIGNIFICANCE AT NAVAL RESEARCH LABORATORIES**
· Enhancements of operational and legacy software systems for Naval Research Laboratories. High Performance Computing (HPC) of data assimilation models, plotting and batch processing.
· Research and development of data analysis, monitoring and display of meteorology and oceanography data for Naval Research Laboratories.
· R&D support of the Cube of Calibrated Clouds post-processing with an enhancement with machine learning techniques.
· R&D of a statistical data analysis visualization tool of large scale data sets for Naval Research Laboratories. Tasks include requirements, design, development, parallel programming, testing, documentation, training, customer support. Integration with cylc automation and Model Evaluation Tools (MET).
· R&D of transitioning route optimization program to rapid operational testing environment. Tasks include Python2 to Python3 upgrade, create OpenAPI/Swagger interface, Technical documentation for install and usage. Testing designs for regression and new routes. Customer support. Agile Scrum.
· R&D of TensorFlow Machine Learning for tropical cyclone data with High Performance Computing.
· R&D of integration of the conversion of IEEE forecast fields to NetCDF, and xarray data sets.
· R&D of scientific application to python package, tech docs, and prepare for operational transition.
· R&D to enhance configuration user inputs. Python packaging and build technical documentation.
· **SOME TECHNOLOGY OF INTEREST FOR NRL**
· Python Anaconda/Pip, Sphinx reStructuredText, LaTEX, qsub, mpi, TensorFlow, Django, JQuery, Matplotlib, KML, Trac/svn, PostgreSQL, AWS GovCloud, HTTPD, Flask, OpenAPI, Swagger, Jinja, Pandas, Xarray, JIRA, Confluence, Bitbucket, GitHub, Docker/Singularity Containers.

· **2012 - 2016, co-Founder, CTO for Showroom LLC., d.b.a. Identity Element**
· co-Founded Showroom LLC, and negotiated a corporate partnership with 0cog. Co-inventing new methodology and technology to improve the valuation and purchase of products, including the authentications of products. Following Lean Startup methodology. Seeking investors, team building, and executing on ideas. Tech: Open Source Technologies, Cloud Services.

· **2007 – 2010, Program/Project Manager, Software Systems Engineer, DeVine Consulting, Inc.**
· Proposals, project management, requirements analyst, business development, staff management, corporate policies and procedures.
· Managed the contracting staff of Navy High Performance Computation Center. Staff has consisted of system administrators, Information Assurance Officer, Security Support, Senior Programmers, and Executive Administrator Assistant.
· Managed the development of smart handheld applications, demo prototypes and new technology for start ups.
· Integration and development of meteorology, oceanography and collaborative web sites for the Navy. Including Microsoft Sharepoint development for Navy regional medical command.
· Quality, documentation, and Agile project management for open source video framework. Tech: Java, JBoss, C/C++, Python, Microsoft (Sharepoint, Win-X, Mobile), PostgreSQL, HTTPD.

· **2001 – 2007, Project Manager, Software Systems Engineer, Computer Sciences Corporation**
· Open source software development for meteorology, oceanography, aviation and information assurance compliance.
· Project management of development/production teams.
· Customer interface with SPAWAR, NETWARCOM, FNMOC, NRL, and defense vendors. Tech: Java, JBoss, C/C++, FORTRAN, ADA, PHP, Perl, CGI, HTTPD, PostgreSQL.

· **2000 – 2001, Staff Engineer, Product Marketing Engineer Lutris Technologies, Inc.**
· Open source software J2EE platform, contract services and product marketing. Tech: Java, Enhydra, XMLC, J2ME, C/C++, Perl, CGI, UNIX, MySQL, Win-X.

- · **1996 – 2000, Programmer Analyst, Boeing (Jeppesen)**
- · Aviation flight planning software. Tech: C/C++, FORTRAN, Relational DB, Perl, TCL, UNIX, CGI, HTTPD.

- · **1994 – 1996, Software Specialist, Northrop Grumman (Sterling Software, Federal Systems Group)**
- · Air Traffic Control software. Tech: C/C++/X, UNIX, Perl, CGI, HTTPD.

- · **1990 – 1994, Programmer Analyst, Northrop Grumman (Applied Technology Associates)**
- · Satellite command and control software, and aircraft weapons simulator software. Tech: FORTRAN, Jovial/JCL, ADA, X, Sybase.

- · **1986 – 1992, Aircraft Armament Specialist, Staff Sergeant, Air National Guard**
- · Air Force management of small technical teams. Aircraft weapons systems operation support and maintenance.

- ▪ **Professional Membership and Activities**
  - · **Project Management Institute (PMI)**
    - o PMI Monterey Bay Chapter Chairman, VP Finance, VP Administration, VP Programs
    - o PMI Silicon Valley Chapter Volunteer - Joint programs with Monterey Bay
  - · **American Institute of Aeronautics and Astronautics (AIAA)**
    - o Member of the Software Systems Technical Committee
    - o AIAA San Francisco Section Chairman and Board Member: Served as a leader in several roles including, Vice-Chairman, Secretary, Public Policy Director, Programs Director, Career Enhancement Director and Internet Director. Awards included, AIAA "Special Service Citation" for leading the "Air Travel Safety Initiative 1997, "Special Service Citation" for the outstanding work on creating and maintaining the Career Enhancement web page. Received outstanding public policy and career enhancement national awards.
    - o AIAA Region 6 Deputy Director of Career Enhancement: This position managed all career enhancement activities for 17 sections within the region.
    - o Designed and developed robot for the AIAA entry in the Robot Wars ™.
  - · **Armed Forces Communications and Electronics Association (AFCEA)**
    - o Corporate member, and active volunteer for activities in the Monterey region.
  - · **Society of Augmented Reality Professionals**
    - o Moderator and contributor to content on cutting edge augmented reality technology.
  - · **Bay Area Management Network**
    - o Founded a lead a professional project management networking and support group.
    - o Facilitate support groups, and host speaking events on project management best practices.
  - · **Santa Cruz 0cognito iOS and Mobile Dev Group**
    - o Founded and lead a professional mobile developer support group.
    - o Facilitate and host meetings to present and discuss cutting edge technology and best practices of mobile device development
  - · **Zerocog Entrepreneur Group**
    - o Founded and lead a support group for entrepreneurs.

- o   Facilitate and host meetings for entrepreneurs to share and discuss ideas to solve challenges for business and product development.
- **Private Pilot License** with 100+ hour's flight time in airplanes and simulators.