

ALEX MATULICH

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ENGINEERING PROJECT MANAGER

Versatile manager of projects and staff, communicator, autonomous acquirer of diverse skills, and adopter of new technologies, tools, standards, and platforms. Customer-focused leader over a range of disciplines.

- PMP-certified Project Manager with 10+ years experience, up to \$20 million design and development projects using earned value management (EVM). Led projects ranging from mechanical engineering to mobile apps, leading distributed teams, traditional and Agile/Scrum.
- Oral and written communication skills demonstrated by writing proposals and conducting numerous technical presentations and courses to customers, managers, and project stakeholders.
- Experienced and comfortable in entrepreneurial, government, and large corporate environments.
- Proven success with analytical skills in modeling, simulation, research and development efforts.
- Technically proficient with PHP, C, C++, C#, VBA, JavaScript, HTML5/CSS3, MySQL, microwave network analyzers, RF communication technology, radar imaging.

PROFESSIONAL EXPERIENCE

DIRECTOR R&D, Unicorn Research Corporation, Orlando, FL (**part time**) 1994 – present

- Principal architect for design, development, and launch of the Official MBA Guide website, a PHP/JavaScript/MySQL search engine for MBA programs from hundreds of universities. Developed entire site infrastructure including custom CRM, PayPal API integration, vBulletin forum integration, Mantis bug tracking system. Site launched in 2005, **sold** in 2013, still active.
- Developed software for financial investor customers: customized trading strategies, Monte Carlo position sizing tool, modeling and simulation of investment portfolios.
- Built up customer base for commercial precision real-time video subtitling application.
- Consulting: TV game show pilot graphics, 3D projections for broadcast golf tournaments.

FREELANCER / CONSULTANT, various clients, Mountain View, CA 2010, 2011 – present

- Increased profits for large-scale trader by developing real-time .NET financial analysis algorithms.
- Lead generation for Saab Barracuda USA LLC accomplished by performing market analysis and generating a white paper to capture the potential for military camouflage materials.
- Advised Guidepoint Global investment clients about hybrid electric propulsion systems.

PROJECT MANAGER, MOBILE API DEVELOPER, EventRadar, Sunnyvale, CA 2010 – 2011

- Led design and development of prototype mobile applications for location-based services.
- Created a new business plan aligned to corporate strategy and direction, to secure funding.
- Developed server-side RESTful API for mobile apps to interact with multiple data sources.
- Created prototype for family of mobile web apps using HTML5 / JavaScript / PHP / MySQL.
- Obtained real time location-based event data for company's apps by establishing relationships with external data suppliers.
- Generated revenue through integration of multiple mobile advertisers.

OPERATIONS DIRECTOR, Arcadia Research Labs, Gardnerville, NV 2009 – 2010

- Developed proprietary algorithms for stochastic time series analysis applied to medical devices.

PROJECT MANAGER (Technical Staff II), BAE Combat Systems, Santa Clara, CA 2001 – 2009

- Achieved cost performance index (CPI) of 99% and schedule performance index (SPI) of 92% in managing \$20M government program, leading a \$20 million combat vehicle stealth technology project; team included membership from multiple companies and government organizations. Planned and executed full-scale vehicle field test events. Directed modeling and simulation of designs. Proactively managed resources, schedules, requirements, risk, cost, R&D subcontracts.
- Saved \$100K through negotiation with customer and contractors to substitute higher-risk analysis and simulation in place of testing.
- Placed subordinates in positions to enhance company value and professional growth in role as supervisor of Thermal Architecture and Stealth Technology engineering group.
- Improved alignment of goals with multiple subsystem projects through creative work and collaboration with other teams during development phase.
- Evangelized combat survivability and educated new mechanical engineers as developer and instructor of vehicle survivability training courses.

ELECTRICAL ENGINEER (GS-0850-13; Systems Planning, Research, Development, and Engineering)
Naval Surface Warfare Center / Naval Sea Systems Command, Washington DC 1994 – 2001

- Obtained congressional funding by executing a year-long feasibility study for construction of new coastal patrol ship with stealth features; led follow-on technology installation and support effort.
- Wrote official Navy policy on stealth technology for surface ships and craft after successfully coordinating agreements from leadership of numerous diverse organizations at the Pentagon.
- Invented classified corner treatment with ATK Mission Research to solve a problem identified with radar cross-section reduction project for the Advanced Enclosed Mast/Sensor System.
- Conducted over 30 formal technical training classes in passive countermeasure system configuration management to ship-force personnel worldwide, as part of ship life cycle support.
- Wrote enhanced-resolution radar image processing algorithms for live at-sea ship evaluations.
- Consulted for future aircraft carriers and international stealth technology data exchange programs, involving teams consisting of technical personnel from the US, United Kingdom, and Australia.

Prior: **ENGINEER SENIOR**, Lockheed Martin Aeronautics, Fort Worth, TX

- Most significant accomplishment: Dramatically enhanced employer's analytical radar measurement capability as sole developer of a complete 3-dimensional inverse synthetic aperture radar target imaging system for stealth property evaluation of aircraft. In use for 10 years.

EDUCATION AND CERTIFICATIONS

- **Project Management Professional (PMP)** certification.
- **Master of Business Administration.** Rollins College, Winter Park, FL. Department of Defense Acquisitions Scholarship recipient (10 awarded per year nationwide).
- **Bachelor of Science *Magna cum Laude*** (Physics). Texas Christian University, Fort Worth, TX.

INTERESTS

Technical financial algorithms, numerical analysis, private pilot, writing Excel VBA macros, Wikipedia.