

JAMES FEINBERG

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Goal

Seeking a position in Systems Engineering or Operations Research.

Summary of Qualifications

Detail oriented systems thinker. Ten years proven project management and leadership experience with a strong technical background and advanced training. Quick to master new systems and develop innovative solutions for complex problems. Effective working under constrained budgets and tight timetables.

Education

MASTER OF ENGINEERING IN SYSTEMS ENGINEERING, *Pennsylvania State University*: 2011

- ☞ Coursework Included: Systems Optimization, Decision and Risk Analysis, Modeling and Simulation, Technical Project Management, Systems Engineering, Requirements Engineering, Architecture, Creativity and Problem Solving. GPA: 4.0

ENGINEERING CERTIFICATE, HIGHEST HONORS, *Mesa College*, San Diego, CA: 2009

CONTINUING EDUCATION, Financial Accounting Principles, *Harvard University*: 2000

BACHELOR OF ARTS, SUMMA CUM LAUDE, *Brandeis University*, Waltham, MA: 1997

- ☞ Highest Honors in Theatre Arts, Minor in Computer Science

Systems Engineering and Project Management Experience

Operations Research Analyst, The MITRE Corporation: 2011–2012

- ☞ Designed, executed, and analyzed models and simulations to guide future acquisition and CONOPS decisions.
- ☞ Determined required traffic, modeled flight paths and ground force movement, and executed simulations to test and compare capabilities of legacy and networked radio systems in multiple scenarios.
- ☞ Developed automatically updating visualizations and reports to ensure proper installation and integration of the battlefield communication network for the US Army's largest test event. Supported the development and configuration management of the architecture data repository. Managed changes from multiple sources on thousands of data points.
- ☞ Established interface definitions for proposed radio ranging network.

Production Management Associate, La Jolla Playhouse: 2007–2008

Production Manager and Adjunct Instructor, University of San Diego: 2002–2006

Production Manager, MFA Program, and

Assistant Production Manager, American Repertory Theatre: 1998–2001

- ☞ Worked closely with directors, designers, technicians, and other stakeholders to establish user needs, define requirements and objectives, and determine which scenery, lighting, props, costume, and sound elements could be delivered by opening night.
- ☞ Created solutions integrating commercially available components (COTS) and custom products and prototypes to meet unique scenery, prop, and lighting needs.
- ☞ Wrote and illustrated procedures manuals and instructions documents on complex technical subjects including digital audio systems, counterweight rigging, and facility operations for both specialist and non-technical audiences.
- ☞ Allocated available budgets, estimated costs, managed timetables, and hired contractors.
- ☞ Led teams of 5 to 50 on projects with both long duration and changing requirements as well as projects conceived and executed within a compressed timeframe.

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Technical Skills

- ☞ **Visualization/Modeling**: Hand and CAD drafting in 2D and 3D using Vectorworks and Pro/ENGINEER. Data visualization using Microsoft Visio, Adobe Photoshop, and Adobe Illustrator. Model-Based System Engineering with SysML. Operations Modeling using linear programming in LINDO and LINGO. Mathematical modeling and simulation using MATLAB and Simulink. Flight path and satellite connectivity modeling using STK.
- ☞ **Programming**: Classically trained computer programmer, coding since 1984 in multiple languages including C, C++, PHP with MySQL, Visual Basic (VBA), Javascript, Pascal, and Scheme. Website and database design.
- ☞ **Networking**: Design, install and manage data networks serving multiple platforms and user types.
- ☞ **RF Engineering**: Maintenance and upgrade of FM radio equipment, including main transmitter replacement, antenna refurbishment, broadcast studio overhaul, signal processing, and spectrum management.
- ☞ **Construction and Fabrication**: Knowledge of general construction practices, including 120V AC electrical systems, overhead lifting, code compliance, and design and installation of projects ranging from compact devices to multi-level buildings.

Professional and Civic Affiliations

International Council on Systems Engineering (INCOSE): 2008–present

- ☞ Vice President for Administration and Webmaster of San Diego chapter.

Community Emergency Response Team (CERT): 2010–present:

- ☞ Volunteer first responder trained by the San Diego Fire-Rescue Department.

Serra Mesa Planning Group: 2005–present

- ☞ Vice Chair since 2008.
- ☞ Advise City of San Diego elected officials and staff on land-use and other planning decisions.
- ☞ Review projects for compliance with state and local environmental standards.
- ☞ Recognized by California State Senate and San Diego City Council for outstanding volunteer service to the community.