

RACHEL FIELDS

23 East 60 North • Provo, UT 84606
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Senior Electrical Engineer

PROFESSIONAL PROFILE

- **Senior electrical engineer with a comprehensive knowledge of designing,** developing and maintaining electrical systems and components to required specifications, focusing on economy, safety, reliability, quality and sustainability. A consistent track record of successfully completing projects from the concept and detail of the design through to implementation, testing and handover.
- **Proven effective leader during project design and implementation.** Special talent for gaining employee involvement and motivating labor forces to engage and work cohesively in achieving productivity, quality, and safety objectives. Known particularly for commitment to opening effective bridges of communication between management and work crews.

AREAS OF EXPERTISE

- Engineer and Design Software
- Design Supervision
- Technical Specification Preparation
- Projection Estimation
- Project Inspection
- Maintenance of Equipment
- Operation of Auxiliary Equipment
- Power System Operation
- BMS Knowledge
- Retail Environment

CAREER HIGHLIGHTS

DELL, Concord, NH • 2001-Present

(One of the world's top suppliers of PCs that specializes in technology products for education, enterprise, and government sector)

Senior Managing Electrical Engineer

Provided technical and project leadership in the Test, Measurement, and Control section of the Embedded Electrical and Electronic competency of Dell Services Engineering Solutions. Supported business development staff to prepare and deliver proposals to customers and assisted with managing and driving strategies for all TMC vendors to the organization. Also mentored and trained developing engineers.

Overall Achievements: Promoted from Staff Engineer to Senior Managing Electrical Engineer after six months of employment. Developed upgrade procedures for 'smart building' infrastructure and environmental control systems. Developed software drivers for variable function test rig.

RAYTHEON, Ogden, UT • 1998-2001

(A technology and innovation leader specializing in defense, homeland security and other government markets throughout the world)

Principle Electrical Engineer

Ensured that the components of the systems are operating as designed, performed maintenance as required, and issues were resolved quickly and thoroughly. Designed new projects, designed reviews, supported new equipment installations, developed preventive maintenance schedules and spares requirements for key equipment, and supported other groups as required.

Overall Achievements: Promoted from Key Electrical Engineer to Principle Electrical Engineer after 5 months of work. Designed and implemented new system of maintenance that increased machine productivity by 30% and reduced energy use by 50%.

TA INSTRUMENTS, Lindon, UT • 1993-1998

(Thermal analysis, rheology, and microcalorimetry supplier recognized worldwide.)

Electrical Engineer

Researched, designed, developed, released and maintained electronic hardware for microcalorimetry instrumentation. Provided hardware support for new electro-mechanical prototypes as part of ongoing new product development efforts. Provided technical guidance to other engineering staff. Worked as part of a multi-disciplined engineering new product development team.

Overall Achievements: Lead in the design of hardware for new and existing systems. Developed test cases and test procedures, oversaw testing and analysis at the system/sub-system level.

EDUCATION

Master of Science, Electrical and Computer Engineering

BRIGHAM YOUNG UNIVERSITY, Provo, UT

Bachelor of Science, Electrical Engineering

BRIGHAM YOUNG UNIVERSITY, Provo, UT

PROFESSIONAL SKILLS

- C / C++ / C# development experience
- Lab and field testing experience
- Licensed Professional Engineer
- Strong oral and written communication skills
- Working knowledge of AutoCAD, Revit, and SKM PowerTools
- RCDD Certification

PROFESSIONAL ASSOCIATIONS

- IEEE, Institute of Electrical And Electronics Engineers
- IET, The Institute of Engineering and Technology
- Association of Energy Engineers
- International Association of Electrical Engineering