

CORY MANNING

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PROFILE

Seasoned **Project Engineer** with project management experience in complex, high-profile projects. Sound leadership abilities with concern for developing team-member's talents. Good history of nurturing strong working relationships with customers. Aggressive in meeting project milestones while managing budget constraints. Track record of innovative designs and successful solutions. Secret DoD security clearance.

Experienced in:

PROJECT MANAGEMENT PROJECT PLANNING R&D TEST PROPOSALS QUALITY CONTROL

Technical Skills

- TEST FIXTURE DESIGN & FABRICATION
 - INSTRUMENTATION & DATA ACQUISITION
 - EXPERIMENT DESIGN
 - DATA REDUCTION & ANALYSIS
 - SYSTEM/SUBSYSTEM DESIGN
 - FUNCTIONAL & STRUCTURAL ANALYSIS
 - EQUIPMENT INTEGRATION
 - TECHNICAL WRITING
 - COMPUTER AIDED DESIGN
 - OPERATIONAL & ENVIRONMENTAL TESTING
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PROFESSIONAL EXPERIENCE

ABC, Inc., Cincinnati, Ohio (1989 to Present)

PROJECT ENGINEER

Key Projects

PROJECT: Decontamination Powder and Packaging System for Chemically Attacked Soldiers

- Tasked with pioneering implementation of statistical process control plan and procedures for development efforts and production processes.
- Modified chemical structure of over 40 alumina formulations and tested for decontamination performance; resulting material formulation provides government with 80% cost savings.
- Designed experiments that became test bed for evaluating capability to neutralize chemical agents.
- Developed detailed product and production process specifications.
- Assisted with procedures and documentation necessary to gain ISO9000 compliance.
- Evaluated capabilities and costs for potential sources of raw materials and manufacturing services.

Highlights of Achievement:

Reengineered system packaging method that provided a smaller footprint, reduced cost of production, and provided more efficient delivery method.

Met aggressive production schedules while resolving manufacturing processes that affected powder dispensing.

Member of 4-person team to oversee production increase from 10,000 decontamination systems per month to 45,000 systems per month.

PROJECT: Regenerative Filtration Math Model

- Fabricated test bed system to validate and provide data for mathematical model of chemical agent filter.
- Designed and built test fixtures to analyze pressure, temperature, airflow, and chemical streams.
- Developed communication and control software for data acquisition system.

Highlights of Achievement:

Developed new system to introduce chemical challenge to test bed in required concentrations and durations.

PROJECT: Regenerative Filtration System

- Managed project to transition regenerative chemical agent filtration technology from lab-scale concept to full-scale system.
- Ensured design met requirements to operate on nuclear, biological and chemical (NBC) battlefield.
- Worked within small budget (\$500K) to complete technically challenging project ahead of schedule.
- Conducted agent simulation testing to incorporate chemical challenge scenarios and environmental conditions.

Highlights of Achievement:

Successfully resolved scale-up issues and demonstrated field operation of the technology.

Overcame significant issues involving filter-bed heating with leading-edge design of direct electrical resistance heating of carbon to greatly increase efficiency and reduce filter size.

PROJECT: Chemically Hardened Air Management Plant

- Managed all hardware development for system to supply HVAC and NBC-filtered air to field medical hospital tents.
- Directed modification of commercial off-the-shelf (COTS) equipment to meet specific military requirements.
- Conducted structural analysis and integrated equipment and subsystems to reduce size, weight, cube, and power consumption.
- Facilitated operational and environmental testing at military sites.

Highlights of Achievement:

Directed team of 6 while managing all project design aspects to assure specification compliance and timeline adherence.

Reduced system footprint by designing unique backup power system utilizing lightweight engine direct-coupled to compressor and generator.

Rolls-Royce Aircraft, Renton, Washington (1986 to 1989)

SYSTEMS/TEST ENGINEER

PROJECT: Guidance-Set Testing for Minuteman III and Peacekeeper ICBMs.

- Upgraded 100-hour burn-in tests to certify Peacekeeper guidance set.
- Ensured test-station hardware/software upgrades were properly implemented to eliminate test delays.
- Wrote system requirements and performed validation studies to confirm operational capability.
- Evaluated Acceptance Test Program to resolve anomalies and make improvements.
- Revised test station operation manual to include software and hardware updates.

Highlights of Achievement:

Significantly improved future development processes by compiling matrix of lessons learned and development of knowledge base that enabled knowledge transfer to subsequent design projects and teams.

EDUCATION

Master of Business Administration (2001)
University of Michigan

Bachelor of Science, Electronics Engineering Technology (1987)
DeVry University, Atlanta, Georgia

Apple