

HANS STEINIGER

Website: <http://www.hanssteiniger.com> ♦ Email: hanssteiniger@yahoo.com

PROGRAM MANAGEMENT - R & D



~ Design / Implementation Of Electrical Control Systems. ~

Talented, program manager and electrical engineering professional with 13 years experience managing programs, designing, building, programming, and installing electrical controls systems for large-scale million dollar vehicle prototypes. Analytical troubleshooter with demonstrated ability to identify problems and implement solutions. Effectively works with cross-functional teams to produce innovative electronic systems and electrical controls based on customer specifications. Highly competent in planning, conducting, managing, and documenting prototype design and installation programs as well as coordinating equipment and fuels demonstrations on military bases (Selfridge Air National Guard Base, Edwards Air Force Base). Well-versed in project planning, subcontractor management, and customer/supplier relations. Accomplished technical writer, highly competent in planning, conducting, managing and documenting program tasks and deliverables. More experience information available on my online resume at www.hanssteiniger.com.

CORE COMPETENCIES

- Quality Improvement / Safety
- Control Design / Implementation
- Electrical Power Distribution
- Resource Management
- Budget / Cost Containment
- Prototype Design Execution
- Project Coordination
- Technology Aptitude
- Root Cause Identification



CAREER HIGHLIGHTS

- Coordinated a 21 month synthetic fuels testing program onsite with personnel at Selfridge ANGB to help certify the US Air Force's ground vehicle and ground support equipment on Fischer-Tropsch synthetic blended jet fuel.
- Helmed a \$2.5M build project to design and deliver 3 field demonstrator vehicles for use by the National Guard for its homeland security mission. Initiated an engineering plan to identify subcontractors and prepare government and subcontractor scopes of work to manage and execute the build.
- Spearheaded the technical efforts to perform the electrical system design, integration, and installation for the US Army's SmarTruck I, III, and NG vehicle prototypes (each completed within 3 months), resulting in both an increase in media exposure and government funding for the SmarTruck Program.

PROFESSIONAL EXPERIENCES

VSE CORPORATION / INTEGRATED CONCEPTS & RESEARCH CORP

PROGRAM MANAGER / LEAD ENGINEER, STERLING HEIGHTS, MI (2000 – PRESENT)

Managed the program lifecycle for the SmarTruck program focused on integrating electrical device solutions on commercial vehicles for military use. Researched, identified, and evaluated cutting edge potential technologies in terms of feasibility, functionality, and costs. Monitored and evaluated subcontractor performance to ensure obligations were completed within established timelines. Prepared all government contracts, technical scopes of work, vehicle instruction manuals, and design documents. Represented the company at vehicle technology demonstrations and conventions as it related to the development and implementation of vehicle prototypes. Planned and implemented research methodology and procedures to apply principles of electrical theory to engineering projects. Developed controls and performed troubleshooting throughout the project lifecycle for each vehicle prototype - developing complex solutions to resolve defects.

Highlights

- Extensive experience working with military customers to incorporate synthetic fuels into military base infrastructure and ground equipment as part of several controlled test programs. Worked as part of a team of technical writers to produce test documentation that detailed the engineering approach undertaken in completion of the synthetic fuels test programs.

Professional Experience, continued...

- Led a project team of 4 software engineers to successfully complete the electrical design and installation for several prototype vehicle projects on time and within budgetary requirements.
- Served as the main customer interface to acquire government funding, provide project quotations, align subcontractors, and track the execution of the project.
- Researched, tested, and analyzed the feasibility, design, operation and performance for nuclear/biological/chemical detection, touchscreen displays, pneumatic/electric mast systems, power generation equipment, solid oxide/PEM fuel cell systems, infrared/visible light camera systems, biometrics, audio/video management systems, radio interoperability communications systems, non-lethal countermeasures, and .50-calibre weapon systems.

GENERAL MOTORS CORPORATION**ELECTRICAL CONTROLS ENGINEER (POWERTRAIN DIVISION), TONAWANDA, NY (1998 – 2000)****ELECTRIC CONTROLS ENGINEER (CO-OP), TONAWANDA, NY (1996 – 1998)**

Designed and supervised the installation and troubleshooting of machine floor production equipment for machining and assembly of aluminum and cast iron cylinder heads. Updated electrical prints in AutoCAD. Held position as a Production Supervisor in charge of 25 employees for several months. Authored operational/design standards for electrical motor control functions. Researched and identified control specifications for purchase of materials and equipment. Provided documentation on all programs, electrical prints, and procedures. Worked in parallel with supervisors, skilled trades, and operators to install and design error-proofing projects. Resident expert in ABB Robot programming, integration, and installation. Outstanding Employee Recognition Award.

Highlights

- Performed programming of indramat, toshiba, motor control drives, modicon/allen-bradley programmable logic controllers (PLCs), and various operator interface terminals.
- Inspected completed designs and observed operations to ensure conformance to design and equipment specifications as well as operational and safety standards.
- Successfully completed undergraduate thesis on “Error-proofing the Assembly of Mark Engines” that encompassed knowledge of the Toyota Production System, error-proofing strategies, radio frequency identification tag tracking, and assembly line controls.
- Reprogrammed robots to increase valve insertion from 60% to 95% insertion that resulted in a dramatic reduction in valve scrap.

EDUCATION / TRAINING

Education:

- **Bachelor of Science in Electrical Engineering**, GMI Engineering & Management Institute, Flint, MI 1998

Training:

- **Technical Training Classes Completed at ICRC:** CAN & Higher Layer Protocols (CAN & J1939), In-Vehicle Networking (J1850), Hands-On Java Programming – Course 471, Mastering Microsoft Project, Mastering Adobe Dreamweaver
- **Technical Training Classes Completed at GM Powertrain:** ABB Robot S4 & S4C Programming, ABB Robot S4 Advanced Programming, ABB Robot S4 Operations & Electrical Maintenance, Introduction to Quantum III DC Drives, Quantum III Digital DC Drives, Cutler-Hammer Panelmate Programming, Indramat DC Motor Control Programming

TECHNICAL PROFICIENCIES

AutoCAD ~ Microsoft Office (Word, Excel, Project, Powerpoint, Outlook, FrontPage) ~ Technical Report Writing – Gov't & Commercial Customer Relations ~ Linux/Windows O/S ~ ABB Robot Programmer ~ PLC Programmer (Modicon, Allen-Bradley) ~ Circuit Design ~ Web Design (MS Expression Web, Dreamweaver) ~ Device Installation on 12VDC, 24VDC, 110VAC, 480VAC Power Platforms

PROFESSIONAL AFFILIATIONS

- ~ Alpha Phi Alpha Fraternity, Inc. – Alumni Member ~
- ~ Association of the US Army (AUSA) – Member ~
- ~ Society of Automotive Engineers (SAE) – Member ~

PERSONAL INTERESTS

- World Travel : China, Hong Kong, Indonesia, Korea, Taiwan, Thailand, Singapore, England, France, Germany, Spain, Italy, Netherlands, Czech Republic, Australia, New Zealand & Tahiti.
- Web Design – Website creation, launch, and search engine optimization (MS Expression Web, Dreamweaver)
- Restoration / repair of antique automobiles, Woodworking / furniture building