DISCIPLINE MANAGER, ENGINE SYSTEMS SOFTWARE

Summary

- Engineering Manager with 28 years' experience in the aerospace industry leading and developing military, commercial and industrial engine control and diagnostic systems and safety critical software to DO-178b, DO-178c standards
- 14 years of experience as an Engineering Manager, responsible for large, geographically dispersed organizations (currently 85 internal employees and 150 outsource employees)
- Effective at integrating and harmonizing disparate processes and organizations by developing comprehensive standard work and consolidating platforms, tools, environments and required skills
- Effective at building a highly effective organization through recruiting/hiring and proficiency management
- Demonstrated ability to utilize ACE (continuous improvement) operating system to methodically identify and implement process improvements to reduce waste and improve quality, project execution, and customer satisfaction
- 5 years leading the Relentless Root Cause Analysis / Mistake-Proofing (RRCA/MP) ACE Element for a 400+ Â employee ACE Site
- Active SECRET Security Clearance

Professional Experience

Discipline Manager, Engine Systems Software 07/2011 to Current Pratt And Whitney City , STATE

- Managed an engineering organization responsible for safety critical control system embedded application software development across all Pratt and Whitney military and commercial engine product lines through all phases of software development from requirements development through verification, validation testing at customer facilities, engine test and flight test.
- Sustained and improved organizational effectiveness through hiring key talent, training, managing proficiencies, and evaluating performance of a large organization (85 internal, 150 outsource).
- Utilized ACE operating system to continuously improve control tower metrics including customer satisfaction, financial and delivery performance, employee satisfaction and product quality.
- Achieved successful certification and entry into service of control software for new PurePowerï¿½ family of engines utilizing product-line approach for software architecture to maximize commonality and minimize development cost.
- Achieved re-use of over 70% across engine family, drove application software to 100% auto-coded from Simulinkï¿½Â model.
- Deployed and refined an Integrated Product Team (IPT) structure to effectively manage software development with over 70% outsourcing.
- Quickly grew the supply base, bringing on key supplier to fill skill gaps and reach required staffing levels.
- Drove improvements into the software requirements, design and verification processes through test-driven design methodology and ACE QCPC process, achieving over 70% reduction in rework.

Discipline Manager, Embedded and Support Systems Software 11/2009 to 07/2011 Pratt And Whitney City , STATE

- Managed an organization responsible for embedded operating system software development across all Pratt and Whitney military and commercial engine product lines as well as all support system software developed by Controls and Diagnostic Systems (CDS) department.
- Developed and deployed comprehensive standard work to establish development processes for non-safety critical support system software utilizing a tiered approach for non-airborne software similar to DO-178b.

Program Manager, Industrial Engine Controls CIPT, Realtime Test Systems Software 09/2003 to 11/2009 Pratt And Whitney City , STATE

- Managed the organization responsible for the control system and software development and support for Power Systems' Industrial Engine programs including budget, resources and program execution.
- Managed the organization responsible for real-time test system software development, including data acquisition and facility control software used in Pratt and Whitney engine and rig test facilities.
- Successfully integrated disparate organizations in West Palm Beach, Middletown, and East Hartford into a single organization, including processes, platforms and tools.
- Led strategic initiative to consolidate and modernize data acquisition and control platforms throughout Pratt and Whitney facilities, eliminating dozens of legacy platforms and saving over $1M per year in equipment costs.
- Improved customer satisfaction for Power Systems programs by applying best practices in control software development to increase quality while retaining cost-effective processes for non-airborne software.

Controls Engineer and Software Integration Engineering Team Leader 06/1994 to 09/2003 Pratt And Whitney City , STATE

- Led the development and integration of engine control software for the PW6000 engine program from concept initiation through certification and flight test, providing technical direction for control laws, on-board engine model, fault detection and accommodation, dynamic analysis, and health management.
- Performed verification and validation of control systems and software for military and commercial engine programs.
- Developed special test equipment including test benches and simulations.

Simulation Development Engineer 08/1988 to 06/1994 Pratt And Whitney City , STATE

- Developed simulations of gas turbine and rocket engines and controls for military and space business customers, including physics-based aero-thermal models and realtime models.
- Participated in the development of a rocket engine simulation system sponsored by NASA.

Education
Master of Science : Management Technology 2006 Rensselaer Polytechnic Institute City , State GPA: 3.9
Bachelor of Science : Mechanical Engineering 1988 University of Florida City , State GPA: 3.7