George M. Gergov
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Objective

Motivated self starter seeking an engineering position in advanced manufacturing, producibility and systems integration within the aerospace industry.

Profile

- 8+ years industry experience in the production and integration advanced airframe structures
- Functioned as lead engineer in various commercial/military programs
- Direct IPT engineering experience and a thorough knowledge of composite fabrication, structural assembly and the critical production/quality processes necessary to produce high precision composite assemblies & airframes
- Continuously implemented affordability improvements in tooling and production processes
- Ability to effectively conduct work in high-paced advanced engineering environments

Education

B.S.E., Industrial and Manufacturing Systems Engineering, University of Michigan, 2002
Research in Engineering Materials, Mechatronics, Jönköping University - Sweden, 2001
Six Sigma Green Belt Certification, UCLA, 2004
Manufacturing Engineering Certificate, UCLA, 2005
The Dale Carnegie Course, University of West Los Angeles**,** 2007

Relevant Experience & Accomplishments

- Understanding of aerospace materials and processes, including: polymer matrix composite materials, plastics, aerospace films and adhesives, thermal and finish coatings, honeycomb & syncore/rohacell applications, BMI resins, composite & assembly tooling
- Closely tracked engineering designs, seeking tooling cost reductions such as: commonality, alternate manufacturing methods, and simple tool reworks resulting in high six figure savings
- Highly experienced in interfacing with product design, stress analysis, materials engineering, outside suppliers, quality assurance, program management and the customer
- Multiple incorporated composite airframe weight savings & program MRB reductions

Employment

Process Engineer IV, **HITCO Carbon Composites, *Gardena, CA*** *Feb 2008 – March 2009*

- Analyzed customers drawings, model based product definitions (MBD), and PO requirements for implementation into the manufacturing process. Provided shop floor support, MRB & design authority on a variety of customer programs
- Lead Engineer on ATK/Boeing/IMI's ARROW II Exit Nozzle. Responsible for the assembly and fabrication of 30+ components including graphite phenolic tape wraps, carbon-carbon molding, aluminum, titanium & steel component fabrication. Developed and maintained planning, work order instructions, engineering dispositions on MRB repairs, shop floor support
- Lead Engineer on AEROJET/ULA's ATLAS V Nose Fairing. Tasked to improve and re-plan the current manufacturing build processes of the large scale composite sandwich core bonded assembly
- Lead Engineer on LMA's THAAD Head Shroud Assembly. Solved complex manufacturing issues and co-developed producibility methods such as hydro-clave curing, machining & resin coating processes with the customer
- Developed SOFT tooling, MBOM, planning, work instructions for BOEING's 787 fixed trailing edge panels & Pratt & Whitney's APU Composite Duct assemblies
- Designed, programmed & supervised the fabrication of NDI defects standards for 787 composite packages using CATIA v5 & FIBERSIM

Employment (cont'd)

Manufacturing Engineer, **Northrop Grumman, *El Segundo, CA*** — *June 2003 - Feb 2008*

- Manufacturing support in the design and transition to production efforts for multiple composite assemblies on all variants of the JSF program
- Solely responsible for 130+ composite parts, 300+ production tools, 100+ manufacturing shop-floor plans & visual aids, performing producibility analysis and providing feedback to the respective design functions
- Team focal for conducting composite tool design reviews & developing tool design go-by's and concepts
- Provided liaison support on the material review board (MRB) deciding hardware disposition status as well as root cause and corrective action analysis
- Sponsored by the company to participate in a rotational program (MEA) throughout the various manufacturing engineering departments while attaining best practices
- Developed a proprietary CATIA v5 macro utility to analyze CMM/laser tracked "as-built" data for molds, cure fixtures and trim fixtures

Systems Engineer/Project Development - MGV Enterprises, *Ann Arbor, MI* — *August 1997 - June 2003*

- Worked closely with the inventor of the intellectual property to grow a 4 employee company into a 25 employee, multi-million dollar corporation
- Directly in charge of pilot projects where a customer's part was taken from its development to production by resolving producibility issues, all while attaining recurring cost savings due to reduced cycle times & weight
- Product by process development using the patented technology

Owner - **GCP Engineering, *Monroe, MI*** — *July 1995 - August 1997*

- Sole proprietor of the business responsible for planning, design, integration, setup, and repair of numerous computer hardware, software and IT applications
- Clients included Monroe Credit Bureau, and AUBG University

Skills

Manufacturing:

- GD&T certification; Six sigma green belt; Lean event facilitator
- Development of manufacturing plans for production parts/assemblies, supporting program schedules and costs, proactively seeking MRB reductions
- Extensive knowledge of composites design, lay-up & cure techniques, materials and processes
- Very good knowledge of electrical instrumentation and industrial automation

Computer:

- 3000+ hrs CATIA V5 Certificate, FiberSIM, AutoCAD r.12, DELMIA, Simul8, MAGMAsoft,
- CPOIS, HMS, WDS, SAP, Planning/MRB Software
- Windows 9X/2000/XP/NT/Vista, MS Office 2007, Unix, Linux, Sun OS
- C++, Pascal, FORTRAN, M6800 Assembly, SnapMaster & LabView DAS

Work Status:

- US Citizen; Past pending secret security clearance

Honors & Awards

- F35 Weight Optimization Awards, 2006-2008
- NGC's F35 Employee of the Month - December, 2007
- Dale Carnegie Awards, 2007

References

- References & letters of recommendation available upon request