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PROFESSIONAL EXPERIENCE

GLOBAL TECHNOLOGY EXPERTS, Marietta, GA 11/1/99 - to present
Metallurgical / Mechanical Project Consultant

JET EDGE CONSULTANTS, Lawrenceville, GA 4/99 - to 11/99
President / Chief Consultant in the areas of: Metallurgy, Quality Assurance,
Failure Analysis and Gas / Steam Turbine and Project Management.

QUANTUM LASER CORPORATION, Norcross, GA 1997 - 1999
Manager of Repair Development, Quality / Process Control & Metallurgical
Engineering.

Managed an R&D team and the Metallurgical Lab. Responsible for developing new repairs on gas turbine engine components, as well as, the metallurgical and QC inspection of samples.

- Achieved 35% growth in sales due to new product development and brought new laser welding equipment on-line thereby increasing production and development capabilities.

GENERAL ELECTRIC ENGINE SERVICES, McAllen, TX 1993 - 1997
(formally, Greenwich Airline Services, Aviall and Ryder Airline Services)
Manager of Repair Development & Metallurgical Engineering, Manager of Thermal Spray Operations, Non-Destructive Testing, Metallurgical / Chemical Lab. & Thermal Support, Environmental & Safety Coordinator

Managed production and development departments consisting of twenty-five people. Responsible for the repair development of cold and hot section turbine engine components. Provided managerial and technical training.

- Developed gas turbine engine component repairs utilizing the following processes: heat treating, vacuum brazing, plasma spray, flame spray, fluoride ion cleaning (FIC), laser powder fusion welding, TIG welding, EB welding, electroplating and brush plating. Repair development involved the following engines: CFM-56, CF-6, 80A, 80C2, V-2500, LM-2500, T-700, JT8D, JT9D, PW4000 and PW2037.
- Directly contributed to the tremendous growth of the McAllen facility by: setting-up production departments and new equipment, resolving environmental, safety, production and development problems using statistical methods, involved with TQA, SQA and Six-Sigma methods, performing technical / managerial training and assisting external customers with on-time project / component deliveries.
- Hands-on experience with ISO 9000, ISO 9001 procedures. Composed ISO documentation for the GE McAllen division.

UNITED TECHNOLOGIES - PRATT & WHITNEY,
Southington, CT and W. Palm Beach, FL 1989 - 1993
Senior Process & Methods Engineer - ORC & CS&S, Tool Design, Coating and Brazing
Engineer

- Manager of R&D related to braze, weld, and thermal spray repairs on: JT9D, PW4000 and PW2037 hot and cold section components. Initiated the purchase of FIC and Automated TIG welding equipment at the PWORC. Designed tooling and support equipment for the F-119, 220 and 220E gas turbine engines at the PWCS&S.
- Advanced the capabilities of the Overhaul Repair Center by initiating new repair technology. I was directly involved in the development of new braze and TurboFix alloys, as well as, pack and out-of-pack coatings. Through my efforts, the PWORC was able to effectively compete with Chromalloy, Howmet and other airline O&R shops. Directly involved in Quality Control projects and the revision of QC documents.

CHROMALLOY - GAS TURBINE CORPORATION, Manchester, CT 1987 - 1989
Senior Development Engineer / Welding Engineer

- Developed weld, braze and thermal spray repairs for Lycoming, Pratt & Whitney and Rolls Royce components.
- Composed Quality Control documents for new processes.
- Managed a repair development group. In the first year, I increased the repair development capabilities of the company through the introduction of new processes. I also increased new component repair sales by 25%.

TEXTRON LYCOMING CORPORATION, 1981 - 1987
Williamsport, PA and Stratford, CT
Materials Engineer / Metallurgist

- Supervised the development of new thermal spray, PVD, CVD and exotic coatings. Responsible for Metallurgical / Quality Control over production thermal spray and external thermal spray coating suppliers using statistical techniques.
- Responsible for the Metallurgical, QC and NDT inspection of raw materials for the Williamsport division.
- Succeeded in obtaining an application patent for a catalytic device mounted on the ALF-502 turbine engine.

FORD MOTOR COMPANY, Dearborn, MI 1978 - 1981
Product Development / Design Engineer / Metallurgist

- Developed new exhaust components and automotive materials. Directly involved with the development of new metal stamping and joining techniques. Research included laser and resistance spot welding applications.
- Hands-on experience with Quality Control and Statistical methods involving automotive / engine components.

WALL COLMONOY CORPORATION, Detroit, MI 1977 - 1978
Manufacturing Engineer - Welding & Brazing

- Responsible for the development of new nickel and cobalt base powders for brazing and thermal spray, as well as, the design of brazing and flame spray equipment. Directly involved with QC testing of braze alloys.

NATIONAL STEEL CORPORATION, Detroit, MI 1974 - 1977
Metallurgist

- Supported all primary steel-making and cold mill operations. Directly involved with metallurgical and QC inspection of mill samples using bench microscopes, electron microprobe and SEM equipment.

EDUCATION

Graduate studies for MS in Metallurgical Engineering,
Wayne State University, Detroit, MI 1978

BSME with minor in Metallurgy, S.U.N.Y.,
Buffalo, NY 1974

AAS, S.U.N.Y., Farmingdale, NY 1972

PROFESSIONAL AFFILIATIONS

Long-term and active member of the following professional organizations: ASMI, AWS, ASNT and the Thermal Spray Society. I am currently serving as Vice-Chairman for the ASM - Atlanta chapter.

SPECIAL SKILLS

Detailed experience with machine shop tools, including tools used for grinding, buffing and polishing of metallic and non-metallic materials, as well as, associated safety requirements.

Computer literate in Microsoft Office, Word, PowerPoint, Lotus and various communication / networking programs.

Programming experience with Allen Bradley, Barber Colman and Honeywell CNC controllers.

Experienced operator of: machine shop equipment, thermal spray equipment and controllers, vacuum brazing furnaces and TIG welding equipment. Wrote process parameters and programs for most of the equipment used in FAA and Aerospace facilities.

Obtained Management Technology Certificate from Pan American (University of Texas) School of Management in 1996.