

MICHAEL E. DANDORPH

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SUMMARY

Process Engineer with more than twenty (20) years experience developing vacuum and plasma carburizing cycles and shotpeen schedules. Supported shop floor activities with the ability to solve challenging problems in the special processes area and developed rework operation plans. Patent holder and international experience.

PROFESSIONAL EXPERIENCE

SIKORSKY AIRCRAFT, Stratford, CT 1974 – 2009

Sikorsky Aircraft is a world leader in the design and manufacture of advanced helicopters for commercial, industrial and military uses.

Process Engineer (1984 – 2009)

Responsible for developing carburizing schedules for both vacuum and plasma furnaces and programming both. Developed, documented and approved shotpeen schedules for new parts. Reviewed and approved supplier shotpeen procedures. Provided shop liaison and trouble shot problems as required for electroplating and anodizing of parts. Also have international experience.

- * Awarded patent # 67008-160;2523 "Gear Material for an Enhanced Rotorcraft Drive System".
- * Over saw the installation and start up of a CNC shotpeen machine which eliminated set up time (saving up to one hour per machine set up) as compared to a manual machine.
- * Directed the installation and start up of a plasma (ion) carburizing furnace which to achieved a more uniform case in the gear teeth.
- * Organized the installation, start-up, qualification and training of a drop bottom furnace used to heat treat aluminum alloys at Alp Aviation in Turkey.
- * Managed the installation / start up and qualification of a roll press and a rotary furnace used in the heat treating of helicopter gears.
- * Assisted Mitsubishi Heavy Industries (MHI) in Nagoya, Japan, in their manufacture of UH-60 (Blackhawk) helicopters in the areas of carburization / heat treat, shotpeen, Dow #17, anodize and various electroplating! systems such as: copper, nickel, cadmium and silver.
- * Organized the installation and start up of a vacuum carburizing furnace which reduced furnace time by ~50% as compared to atmosphere carburizing.

Metallurgist – Quality Assurance Materials and Process Laboratory (1979-1984)

Performed micro hardness and microstructure evaluations of carburization cycles. Also performed spectrographic analysis of metals and oils and chemical analysis of plating solutions.

- * Oversaw the installation and start up of a computer controlled spectrograph to reduce the time needed and more accurately analyze the contents of metals and oils.

Spectrographic Technician – Engineering Structures and Materials Laboratory (1976-1979)

Performed spectrographic analysis of metals (solid and solution) and oils, corrosion resistant testing, waste water analysis and physical testing of composites.

Performed shop floor labor and was a flight test technician. (1974 – 1976)

MILITARY

United States Air Force Reserve (1980 – 1984), Westover Air Force Base, Massachusetts, Captain, 42nd Mobile Aerial Port Squadron, Air Terminal Operations Center, Officer in Charge

EDUCATION

Bachelor of Arts, Chemistry, Norwich University, Northfield, Vermont, 1974