

Stephen Love History

Second generation mechanic seeking second career in performance automobile construction, development or repair.

Education: B.Sc. Metallurgical Engineering, Colorado School of Mines, 1978
M.Sc. Metallurgy, Rensselaer Polytechnic Institute, 1981

Experience:

Engineer, EuroAmerican Engineering, 9/2007 - present.
Mechanic, Racetech USA, 4/2006 - 9/2006
Junior and chief mechanic, Scuderia Silvestri, 10/2004 - 10/2005
Restoration of 1969 Norton Commando "S" motorcycle to nut and bolt level, 1995 and 2000.
Metallurgical engineering positions in aerospace and power generation, 1978 - 2002.

Technical Skills:

Failure Analysis

Experience in failure mode and effect determination in failures of gearing, ball and roller bearings, and other components.

Materials Applications and Processing

Expert knowledge in the selection of metals for combustion turbine and liquid fueled rocket applications including structures and casings, gears, bearings and shafts. Knowledgeable in the selection of processing parameters and the resultant material property effects for superalloys, titanium alloys, and martensitic, austenitic, and precipitation hardening stainless steels. Direct experience with GEAE, Westinghouse and P&W processes and products.

Specifications and Standards

Experienced in preparing, revising and interpreting military and industrial specifications. Processed developmental materials from initial draft specification through characterization and production incorporation. Provided expert specification interpretation to design, quality, manufacturing and supplier representatives.

Heat Treatment

Familiar with the installation, startup, and operation of air and vacuum furnaces for the heat treatment of metals. Knowledgeable in the military and industry standard heat treatment specifications and their application to turbo machinery products.

Welding and Brazing

Skilled in the design of complex fabrications containing several materials and requiring both welding and brazing. Familiar with the applications of all types of furnace and manual brazing with precious metal and nickel-base alloys including sequential brazes. Knowledgeable in process requirements for successful welding and heat treatment of high creep strength titanium alloys.

Computing

Advanced user of word processing, spreadsheet, and presentation graphic applications for personal computers. At home with Linux, and Microsoft Windows®.

Professional Societies

ASM International