Curriculum Vitae

Lloyd C. Meissner, P.E.
Senior Consultant

Professional Practice

Offers Crane Engineering's clients more than 35 years of experience in metallurgical engineering, including extensive background in defense industry applications, failure analysis, design support, prototype and production fabrication, and manufacture-process analysis. Experienced in working directly with clients to provide consultation.

Employment History

Senior Consultant – Crane Engineering / ESi

Plymouth, MN • January 2019 - Present

Metallurgical/Materials Engineer – Crane Engineering

Plymouth, MN • 2011 - 2018

Specializing in materials and process engineering. Provides industrial clients with failure analysis, design support, prototype and production fabrication and manufacture-process analysis. Works closely with clients to solve metallurgical and materials problems.

Applications Engineer/Lead Metallurgical Engineer – Honeywell Aerospace Electronic Systems

Minneapolis, MN • 1990 - 2011

Worked directly with customers on a variety of avionics applications including ring laser gyros, spinning mass gyros, inertial reference units, air data computers, cruise missile and altimeter application. Worked with design, production, quality, reliability and purchasing groups.

Metallurgical Engineer – Honeywell Defense System Division Precision Weapons Operations

Minnetonka, MN • 1985 - 1990

Developed material specifications for high density penetration materials and ultra-high strength steels. Implemented strategic metals control. Performed a variety of failure analysis, manufacturing process improvements, and material and process specifications.

Metallurgical Engineer – Honeywell Defense System Division

Hopkins, MN • 1983 - 1985

Heat treat laboratory lead engineer. Responsible for mechanical testing, materials selection, print reviews, leak testing, friction testing, SEM/EDS, hardness and microstructure evaluation on metals, non-metals and printed wiring assemblies.

Research Assistant – Michigan Technological University

Houghton, MI • 1982

Prepared research grade alloy melts, metallography and phase diagram determination.

Professional Licenses

Registered Professional Engineer – Minnesota

Professional Affiliations and Honors

ASM International, 1981 – present

Minnesota Microscopy Society, 2015 – present

Patent, Electrode Connector for Ring Laser Gyros US 7,429,198B1, September 30, 2008

Education

Bachelor of Science, Michigan Technological University, Houghton, MI, 1983