

About

Professional Mechanical Engineer with 11 years of experience specializing in the design of heavy machinery and mechanical systems. Reliable, creative, organized and able to solve problems to make sure projects get finished on time and on budget. Adept at planning projects, managing production, drafting and design.

Education & Licensing

Professional Engineer (P.Eng.)

Engineers and Geoscientists of BC

BASc, Mechanical Engineering

University of British Columbia, 2007

Skills

DESIGN

Problem Solving
Analytical Thinking
Top-Down Design
Prototyping & Testing
Engineering Fundamentals
Troubleshooting

TECHNICAL

Statics & Dynamics
Heat Transfer
Fluid Mechanics
Manufacturing Processes
FMEA
Statistical Analysis

SOFTWARE

Solidworks / PDM
AutoCAD / Inventor
FEA Simulation
Programming (C/C++)
Scripting (Python)
MS Suite (incl. MS Project)

OTHER

Proactive
Adaptable
Detail-Oriented
Project Management
Labour & Cost Estimating
Spanish

Professional Experience

2009 – Present

Mechanical Engineer

Lochhead Haggerty Engineering & Manufacturing, Ltd.

Lochhead Haggerty is an innovator of environmentally-friendly recycling technology. Lochhead has been a leader in the design and manufacture of high-temperature heat process equipment for over 60 years.

- Designed multi-million dollar projects that were later installed in the United States, Dominican Republic and Argentina; completed 25+ additional projects at various international sites
- Designs rotary kilns, mercury retorts and harsh-environment mining processing equipment
- Performs engineering calculations of heat transfer, stresses, speeds, hp, weights and loading
- Creates parts, assemblies and drawings with 2D and 3D CAD software
- Reviews and signs off on drawings for accuracy, material selection and clarity
- Performs experimental tests and quality control inspections in production facility
- Attends international site visits for equipment commissioning
- Writes Installation, Operation and Maintenance manuals for equipment
- Oversees vendor and business contracts, prepares time, cost, material, and labor estimates

2006

Mechanical Designer (Co-op)

Eastman Kodak – Graphic Communications Division

Kodak's Graphics division (formerly Creo) a world leader in supplying platesetters for the printing industry.

- Designed and modeled rotator module for Newspaper Platesetter
- Created and drafted design requirements and specifications for the rotator
- Drafted design and production drawings using SolidWorks

2006

Production Engineer (Co-op)

ASCO Aerospace Canada

ASCO is a high-precision CNC machine shop that specializes in manufacture of aerospace components.

- Assisted in production start-up of 5-axis high-speed aluminum machining mill
- Streamlined process for production of Boeing 737s wing ribs
- Ensured production ran on time and in a lean manner