

# GARRETH DUNSMUIR-CREGG, P.ENG. MECHANICAL ENGINEER

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## 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