

Dustin M. Miller

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OBJECTIVE To obtain a position that provides innovation in the development and implementation of technologies, new ideas, products, processes, and techniques in a team environment that best utilizes my diverse engineering experience.

EDUCATION **University of Washington, Seattle, WA** **Expected 2010**
Doctor of Philosophy (PhD) – Mechanical Engineering

University of Washington, Seattle, WA **March 07**
Master of Science - Mechanical Engineering

Mechanical Engineering Courses:

Automatic Control; Experimental Stress Analysis; Advanced Composites: Design and Manufacturing; Design of Measurement Systems; Adhesion Mechanics; Design for the Environment; Design of Micro-Electrical Mechanical Systems (MEMS)

Industrial Engineering Courses:

Virtual Interface Technology; Robust Design and Quality Engineering; Reliability in Product Design and Testing

Western Washington University, Bellingham, WA **March 05**
Bachelor of Science - Manufacturing Engineering Technology

Manufacturing Engineering Courses:

Manufacturing Automation and Robotics; Data Analysis and Design of Experiments; Reinforced Plastics and Composites; Electronics for Engineering (3 courses); Numerical Control Operations; Tool Design; Polymer Technology

Operation Management Systems Courses:

Quality Management; Enterprise Resource Planning Systems; Designing and Improving Operations

EMPLOYMENT **University of Washington, Seattle, WA** **December 05 – Current**
Research Assistant - Microcellular Plastics Lab

- Microcellular PVC extrusion process development
- Microcellular/Nanocellular PEI property research
- Manage lab research projects including: design of experiments, resources, training, intellectual property

Nanocel Engineering, Seattle, WA **October 06 – Current**
Owner – Design & Manufacturing Consulting

- Support customers in design and manufacturing of products and processes.

- Engineering Design Automation, Bellingham, WA** **March 05 – Sept. 05**
Computer Aided Design Engineer
- SolidWorks 2005 automation
 - Extensive work in part design, engineering drawing, and .dxf file creation in SolidWorks
 - Excel database management and coding
- Johnson Outdoors, Inc., Bellingham, WA** **June 04 – Sept. 04**
Manufacturing Engineer
- Value Stream Mapping, Heijunka or load leveling, Kanban implementation, and standard operations
 - Created and revised Bills of Material
 - Developed cycle time improvements eliminating non-value added time
- Safety Emergency Systems USA, Inc., Bellingham, WA** **June 03 – Sept. 03**
Computer Aided Design Engineer
- AutoCAD part and engineering drawing creation for military and commercial advanced warning systems
- Sagetech Corporation, Hood River, OR** **June 02 – Sept. 02**
Research and Design Engineer
- UAV muffler design project
 - Developed engine tuning procedure, engine modifications, test bench hardware, and muffler prototypes
 - Final design provided 16dB noise reduction and 10% increase in engine performance

EXPERIENCE

Quality Programs

Lean Manufacturing, Six Sigma, Value Stream Mapping, Toyota Production System, 5S, Kaizen, Just-In-Time Production, Kanban, Heijunka, Taguchi Methods, Design of Experiments, Probability and Statistics

Computer Programs

Engineering Software: MATLAB 7 (Simulink), MathCAD 11

CAD: SolidWorks 2005(COSMOSXpress, MoldFlowXpress), CATIA V5 (Machining Domain),

ProEngineer Wildfire, ProEngineer 2001, AutoCAD, Rhinoceros

Programming: HTML, C++, Visual Basic, G&M CNC code, Excel

Microsoft Office: Word, Excel, PowerPoint, Outlook, Access

Other: Adobe, Internet Explorer, Mozilla Firefox

Professional Organizations

American Society for Quality, Society of Manufacturing Engineers, Society of Plastic Engineers

INTERESTS

Professional

Design of Experiments, Design for Manufacturing, Design for Environment, Design for Quality, Rapid Prototyping, Machining, Hands-on in situ Management, Business Administration

Personal

Hiking, Ocean Kayaking, Mountain Biking, Guitars, Hunting