

Rebecca J. Meritz

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SKILLS

Programming Languages: Erlang, Haskell, Ruby, Bash, L^AT_EX
Tools: Nginx, Riak, Vagrant, Unix, Git, Scrum, Emacs
Natural Languages: English (fluent), Swedish (proficient)

EXPERIENCE

Developer May 2011 - Present
Klarna AB Stockholm, SV

- Design, develop, and test secure APIs in Erlang using OTP behaviors.
- Work with an agile team on fault-tolerant backend infrastructure for global e-commerce.
- Communicate within a team and present to key stakeholders.
- Facilitate the release process including the development of tools.
- Integrate with external services and open source libraries.

Mechanical Engineering Co-op January 2010 - June 2010
MIT Lincoln Laboratory Lexington, MA

- Designed LASER Optical Module for XPrize competition.
- Developed and conducted preliminary tests of module components.
- Communicated directly with vendors.

Undergraduate Research Assistant June 2008 - December 2009
Center for High-Rate Nanomanufacturing Boston, MA

- Co-authored: "Engineering Low-Aspect Ratio Carbon Nanostructures: Nanocups, Nanorings, and Nanocontainers," ACS Nano, 2009.
- Optimized process to grow densely packed, vertically-aligned, single-wall nanotubes.
- Operated and developed recipes for chemical vapor deposition furnace, ion mill, inductive coupling plasma, electron beam evaporator, and scanning electron microscope.

Mechanical Engineering Internship July 2009 - August 2009
Naval Undersea Warfare Center Newport, RI

- Modeled MK54 Torpedo engine parts and assemblies.
- Oversaw deep depth pressure vessel tests, performed data analysis, and compiled lab reports.
- Coordinated Otto fuel compatibility testing.

Torpedo R&D Engineering Co-op January 2009 - June 2009
Naval Sea Systems Command Washington, D.C.

- Investigated requirements and updated security practices.
- Created expense plans and a process for tracking expenditures to help shape the budget.
- Coordinated Insensitive Munitions testing across multiple test sites.

EDUCATION

Northeastern University, Boston, MA Graduation April 2011
B.S. Mechanical Engineering, Honors College G.P.A. 3.76/4.0

INTERESTS

Climbing, cycling, and linguistics.