Jake Nielsen

3B Mechatronics Engineering

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github.com/jknielse

Skills

Languages **Objective-C**, C, C++, Bash, Python, Lua, Javascript, Scheme, Assembly
Software **Git**, SVN, Visual Studio, **X-Code**, Vim, Windows, Linux, Mac

Work Experience

Sept 2012 - Feb 2012 **Mobile Software Engineering**,
Rebellion Media Inc., Waterloo.
iOS development
Backend development using nodejs and mongoose
Received an **outstanding** on work evaluation

Jan 2012 - Apr 2012 **Cofounder and Software Developer**,
Crouton Labs inc, Waterloo.
Developing iOS applications for restaurants
Sales and marketing

May 2011 - Aug 2011 **Manufacturing Software Engineering**,
Sandvine Inc., Waterloo.
Writing and maintaining test scripts for quality control
Troubleshooting hardware in the event of test failures
Configuring and uploading harddisk images to Sandvine's Policy Traffic Switches

May 2010 - Aug 2010 **Software and Hardware Developer**,
University of Waterloo.
Sept 2010 - Dec 2010 Developing hardware and firmware for an exparimental configurable 3D surface
Developing firmware, drivers, and software for an experimental 3-axis CNC lathe
Producing firmware, software and hand-held controller for a 3D scanner
Received an **outstanding** on work evaluation

Projects and Competitions

Autonomous Boat Designed the hardware, sofware, and PID control system for a boat capable of autonomously navigating a water-course without hitting the walls of the course

Computing Collective (Co-founder) Worked on start-up that commercializes the grid computing space, winners of the Velocity Venture Fund competition.
Involved in the software development of said platform in python.

VeloCity Entrepreneurial Incubator Returning resident at VeloCity, which helps students who are working on start-ups, by providing funding, mentorship and a collaborative environment.

Education

2009 - Present **Candidate for Bachelor of Applied Sciences in Honours Mechatronics Engineering**,
University of Waterloo.
Relevant Courses: Designing Functional Programs, RTOS, Sensors and Instrumentation, Elementary Algorithm Design and Data Abstraction, RCL Circuits, Ordinary Differential Equations, Mechanics of Deformable Solids, Physics: Dynamics, Microcontrollers and Digital Logic, Control Systems