

Kieran Broekhoven

3A Mechatronics Engineering
University of Waterloo

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Software Skills

Languages: C, C++, Python,
HTML, MatLab, Bash, Batch

OS: Windows, Ubuntu, OS X

Frameworks: Django, ROS,
Bootstrap

Other: Git, REST API, Sentry, JSON

Other Technical Skills

AutoCAD, SolidWorks, MIMICS,
3-Matic

Machine shop experience using
lathes and drill presses.

Activities and Interests

Martial Arts: Karate, Kung
Fu, Kobudo.

Theatre: Director and actor
in several plays and musicals

Music: guitar, piano, drums,
bass, singing.

Recreation: volleyball, rock
climbing, snowboarding.

Relevant Experience

Test Engineering Analyst – Clearpath

January – April 2016

- Writing extensions to Sentry, a crash reporting software, to automate company processes.
- Designing a Django application to monitor a set of servers that each control a fleet of robots.
- Writing various scripts to streamline or replace time consuming tasks.

Build Master Intern – Radialpoint, Inc.

May – August 2015

- Designing a system using Python that automates the process of setting up virtual machines on different build system machines.
- Creating a web service that allows users to utilize the system with a user interface on the company's intranet.
- Assisting developers with problems they encountered with the company's build automation system.

Biomechanical Design – Soochow University, China

September – December 2014

- Independently designing and 3D printing an ankle and foot orthotic (AFO) for chronic ankle instability.
- Improving and optimizing current AFO designs in order to create an effective and stylish brace.
- Designing the structure for a team member's brace in SolidWorks.

Work and Leadership Experience

Past Employment

- Research Assistant, University of Waterloo
Neurorobotics Lab
- Karate Instructor, 6-12 year olds.

University of Waterloo Engineering Society

- Vice President External
- Chair, Board of Directors

Conrad Grebel University College

- Spring 2014 Student Council Treasurer
- Winter-Spring 2016 Dance Club Leader