Brady Jacobs
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Current Address
2206 Dorchester Dr N.
Apt 103
Troy, MI 48084

Education
Cornell University
- Masters of Engineering .... May 2015
  - Mechanical Engineering focus in Dynamics Controls, and Robotics
  - GPA: 3.92 (4.3 scale)
- Bachelors of Science .... May 2014
  - Mechanical Engineering, Minor in Computer Science
  - GPA: 4.05 (4.3 scale)

Past Employment
FANUC America Corporation 2015-Present
- Position: Product Development Engineer - Applied Motion Group
- Developed cloud analytics to help predict and prevent robot downtime
  - Web interface for tracking and managing robot maintenance tasks using usage data sent from the robot
  - Developed analytic to predict reducer failure based on robot motion data from production path
- Tuned motion software for new P-40iA robot, working closely with mechanical engineers to meet life and reliability specifications
- Developed I/O interface for velocity and position control of axes used for process equipment
- Communicated regularly with Japanese office for product unification and testing

Research in LIMS Lab on hydraulic artificial muscles .... Summer/Fall 2014
- Simulated 7-link bipedal robot gait to extract forces in hydraulic cylinders
- Designed controller for dynomometer test apparatus for artificial muscle bundles and variable recruitment control strategy

Teaching Assistant for Computer System Organization and Programming .... Spring 2014
- Lead discussion sections and held weekly office hours for students
- Helped students to reinforce concepts such as CPU organization, assembly language, low level memory management, and optimization

Research in The Fluid Dynamics Research Lab .... Summer 2013
- Modelled flow around small-scale vertical-axis wind turbines for different airfoils

Assistant karate instructor 2009-2010
- Taught children (ages 5 and up) self defense

Computer Skills
<u>Programming</u>: Java | Python | MATLAB | C | MIPS | OCaml | HTML | PHP | MySQL | Javascript | JQuery | Simulink | LabView | ROS | UNIX | AngularJS | jqPlot | C# | .NET | Apache Hadoop
<u>CAD/Simulation</u>: SolidWorks | ANSYS
<u>Other</u>: LaTeX | Microsoft Office | Excel | Google Docs | Git | Clearcase

Other Experiences
Section Leader and Rank Leader in Big Red Marching Band .... Spring 2012
3D graphics modeling and animating using Blender 3D