

Devin T. Schwab

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Objective: Push the boundaries of robot software and artificial intelligence

Education: Aug. 2009 – Aug. 2014 **Case Western Reserve University** Cleveland, OH

- BSE in Electrical Engineering, Summa Cum Laude
- BS in Computer Science, Summa Cum Laude
- Minor in Japanese with multiple study abroad programs in Tokyo for Japanese language
- GPA: 4.0
- Accepted into the B.S./M.S. program

Aug. 2014 – Present **Case Western Reserve University** Cleveland, OH

- Pursuing a Masters in Computer Science
- GPA: 4.0
- Expected Graduation Date: May 2015
- Research topics focus on reinforcement learning which is a subfield of machine learning and artificial intelligence

Work Experience **Digidevin LLC** – Cleveland, OH

Aug. 2014 – Present – **Created Business to Perform Software Development as a Service**

- Contract to write end-user graphical user interface that interfaces with the customer's custom hardware device (under NDA, so specifics cannot be discussed)

The University of Hong Kong – Hong Kong

Feb. 2013 – Dec. 2013 – **Research Associate with DARPA Robotics Challenge (DRC) Team**

- Wrote software to complete the 8 DRC Trials tasks which included: walking, manipulation and driving using a humanoid robot named Atlas
- Developed software to provide robot interactions using devices such as the Kinect, the PS Move, Wiimote and the Leap Motion
- Wrote software to process data from the Carnegie Robotics Multisense Head
- Wrote software to control the Sandia National Laboratories' robotic hand
- Worked on team's software architecture for the competition.

NASA Glenn Research Center – Cleveland, OH

May 2011-Dec 2011 – **Co-op Rotation with the System Engineering Branch**

- Helped design the initial architecture of a space communications lab that will cut costs and decrease testing time when completed
- Wrote programs and did analysis on Thermal Vacuum Chamber Testing for the CoNNeCT project which will be sent to the ISS this year
- Provided software development advice to a new project team that is working on simulation software for space communications

June 2010 – Aug. 2010 – **Internship with Space Communications and Navigation Department**

- Designed communications subsystem for conceptual lunar satellite
- Published paper *SCience Hybrid Orbiter and Lunar Relay (SCHOLR) Architecture and Design* for AIAA SPACE 2010 Conference

June 2009 – Aug. 2009 – **Internship with Space Communications and Navigation Department**

- Used knowledge of networking and wireless technologies to analyze and design communication sub-system for Lunar sortie scenario

Skills

- Experienced in C++, Java and Python
- Experienced with ROS framework
- Beginner development experience with Android
- Intermediate experience with Matlab and Labview
- Can read, write and speak intermediate Japanese