Devin T. Schwab

6350 Forward Ave
Apt 16
Pittsburgh, PA 15217

Phone: (440) 385-4074
E-mail: dschwab@andrew.cmu.edu
Website: devinschwab.com

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 – Aug 2015 Case Western Reserve University Cleveland, OH
- Masters in Computer Science
- GPA: 4.0
- Thesis: Hierarchical Sampling for Least-Squares Policy Iteration
- Adviser: Soumya Ray

Aug 2015 – Present Robotics Institute – Carnegie Mellon University Cleveland, OH
- Pursuing a PhD in Robotics
- GPA: 4.0
- Adviser: Manuela Veloso
- NDSEG Fellowship Recipient

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 PC 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, Python and Matlab
- Experienced with ROS framework
- Extensive experience with real robot hardware: Atlas, Nao, CoBots