Prateek Sahay

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# Education

Worcester Polytechnic Institute (WPI) Worcester, MA

**B.S. in Robotics Engineering and B.S. in Mechanical Engineering; GPA: 3.7/4.0** May 2015

*Relevant coursework: Robotics, Advanced Controls, Signals, Embedded Systems, Mechatronics, Heat Transfer*

# wORK Experience

Sikorsky Aircraft Corporation, A Lockheed Martin CompanyJun 2015 – Present

Stratford, CT, Flight Controls Engineer

* Wrote an Android application working closely with UI experts following aviation standards
* Helped write an OpenSceneGraph tablet application for Android for pilots to control aircraft

[MIT Media Lab Summer 2014](http://prateeksahay.com/musicbot.html)

*Cambridge, MA, Robotics Intern*

* Devised a 5-DOF robot for use in social robotics experiments, ran motion simulations in ROS
* Ran field tests, helped conduct human research studies

[ABB Ltd. *Summer 2013*](http://prateeksahay.com/abb.html)

*Bangalore, India, Engineering Intern*

* Worked in a team to program and troubleshoot robots on-site to fit specific customer needs
* Designed robot grippers in CAD and troubleshot and repaired defective robots on-site

ITN Energy SystemsSummer 2012

Denver, CO, Engineering Intern

* Built multi-stage machines to reduce manufacturing cost of thin-film deposition batteries
* Worked with nanomaterial sputtering techniques and vacuum chambers

# Project Experience

[Autonomous Ground Vehicle (MQP) Sept 2014 – Apr 2015](http://prateeksahay.com/mqp.html)

* Automated a full-size electric golf cart to implement SLAM
* Performed installation, calibration, and troubleshooting of electromechanical components

# Skills

Applications: [SolidWorks](http://prateeksahay.com/sw.html) Creo LaTeX MATLAB MS Office Online tools Multimedia editing

Programming: C/C++ Java Python HTML/CSS/JS Android Qt OpenSceneGraph ROS

Machining: End mill Lathe CNC Water jet Laser cutter Soldering Fiberglass molding

Languages: Hindi Spanish

# Honors

Rho Beta Epsilon, WPI Robotics Honors Society 2014 – 2015

Official Certified SolidWorks Associate (CSWA) Aug 2010 – Present