Prateek Sahay

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# Education

Worcester Polytechnic Institute (WPI) Worcester, MA

**B.S. in Robotics Engineering and B.S. in Mechanical Engineering** May 2015

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

# Internship Experience

MIT Media Lab May – Aug 2014

Cambridge, MA, Robotics Intern

* Designed proof-of-concept intersection system for ceiling robot
* Devised a mechanically innovative robot for use in social robotics experiments
* Conducted Q&A analyses, constructed multiple prototypes

ABB Ltd. Jun – Jul 2013

Bangalore, India, Engineering Intern

* Worked in teams to program robots to fit specific customer needs
* Took initiative in face-to-face meetings with customers
* Designed robot grippers in CAD and troubleshot and repaired defective robots on-site

ITN Energy SystemsJun – Aug 2012

Denver, CO, Engineering Intern

* Worked with nanomaterial science, sputtering technique, vacuum chambers
* Designed parts for R&D in CAD then machined them in CNC mills and lathes
* Built multi-stage machines to reduce manufacturing cost of thin-film deposition batteries

SolidWorks CorporationJun – Aug 2011

Concord, MA, Engineering Intern

* Designed and manufactured several modules for Ultimate Office
* Collaborated one-on-one with third-party contractors
* Launched “Let’s Go Design”

# Project Experience

Autonomous Ground Vehicle (MQP) Sept 2014 – Apr 2015

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

# Skills

Applications SolidWorks Creo LaTeX MATLAB MS Office Online tools Multimedia editing

Programming C/C++ Java Arduino Python ROS HTML/CSS Embedded

Machining End mill Lathe CNC Water jet Laser cutter Soldering

Languages Hindi Spanish

# Honors

**Rho Beta Epsilon, Honors Society** 2014

**Official Certified SolidWorks Associate (CSWA)** August 2010