

P R A T E E K S A H A Y

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www.prateeksahay.com

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 troubleshoot and repaired defective robots on-site

ITN Energy Systems

Jun – 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 Corporation

Jun – 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