

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

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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 Company

Jun 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

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

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 troubleshoot and repaired defective robots on-site

ITN Energy Systems

Summer 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

- 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 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