Samir Wadhwania

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I want to excel in the fields of robotics, controls engineering, and autonomous systems

EDUCATION

Massachusetts Institute of Technology   *Class of 2018*
B.S. Aerospace Engineering, Electrical Engineering and Computer Science

EMPLOYMENT

Jet Propulsion Lab - Aerospace Engineering Extern   *January 2017*
- Built new infrastructure to support mission formulation for various engineering teams
- Developed an Integrated Modeling Environment to provide solutions for data storage, model integration, and report generation
- Responsible for identifying additional tools, test cases, and resources needed to support the final phase of this development.

The Boeing Company - SLS Electrical Design Engineering Intern   *Summer 2016*
- Created flexible vehicle model incorporating FEA models and electromechanical actuators
- Designed actuator control system for thrust vector control of the Upper Exploration Stage
- Awarded a Pride@Boeing Award – creating internal design tools for flex model creation

Northrop Grumman - Software QA Engineering Intern   *Summer 2015*
- Performed software source code and test procedure reviews on Triton UAS
- Identified opportunities for improvement, created initiatives and provided solutions to save on schedule and budget within Systems Engineering department
- Awarded a Performance Recognition Award – created VB and DXL scripts to automate batch importation and linking of test cases into DOORS database

PROJECTS

Solar Powered Water Pump @ DLAB - UROP   *Spring 2016*
- Developed a solar powered water pump system for remote villages without access to running water or electricity - traveled to El Salvador in summer 2016 to test and implement

Integrated Robotics Group @ CSAIL - UROP   *Fall 2015*
- Tackled gesture/speech recognition utilizing machine learning algorithms to determine and communicate decision recommendations for labor floor delivery nurses

EXTRACURRICULARS/LEADERSHIP

Questbridge Exec - Outreach Liaison   *Fall 2016 - Present*
- Organizes weekly tutoring meetups for local middle schoolers with Breakthrough Boston

DLAB Youth - Board Member   *Fall 2016 - Present*
- Manages DLAB's local outreach program to bring workshops to local schools

MIT Rocket Team - Avionics Subteam Captain   *Fall 2015 - Spring 2016*
- Led avionics subteam in developing sensor and telemetry system, designing custom circuit boards, and maintaining constant communication with rocket

SKILLS/CLASSES

Proficient: Python, MATLAB, SIMULINK, Arduino, Office, Sublime, REST APIs
Familiar: C++, Numberjack, iOS Development, XCode, DXL, HTML, CSS, Javascript, Photoshop

Relevant Courses Taken/Planned (through Spring 2017):

6.002 — Circuits and Electronics	16.001,2,3,4 — Unified Engineering
6.006 — Introduction to Algorithms	(Fluids, Thermo, Structures, Signals)
6.302 — Feedback System Design	16.405 — Robotics: Science and Systems Lab
16.07 —Aerospace Dynamics	16.413 — Autonomy and Decision Making