

# DAVIDDOAN

daviddoan@mit.edu  
daviddoan.mit.edu  
+1.310.218.3186

## EDUCATION

Cambridge, Massachusetts  
August 2013 to June 2017

### MASSACHUSETTS INSTITUTE OF TECHNOLOGY (MIT)

Bachelor of Science Candidate (B.S.c.) for Mechanical Engineering (Course 2)  
GPA: 4.3/5.0

## EXPERIENCE

Hawthorne, California  
June 2015 to August 2015

### SPACE EXPLORATION TECHNOLOGIES (SPACEX)

Avionics Manufacturing Engineer

- Led and developed a working prototype of automated equipment
- Determined and designed a solution for several production issues
- Designed and implemented several tooling solutions across the floor

Cambridge, Massachusetts  
IAP 2014  
June 2014 to September 2014

### MIT MEDIA LAB | TANGIBLE MEDIA GROUP (TMG)

Mechanical Engineering Undergraduate Researcher

- Designed second iteration of inForm prototype (a shape shifting table)
- Modelled and prototyped several scalable solutions
- Designed for manufacturing and drafted technical drawings for manufacturers

Cambridge, Massachusetts  
October 2013 to December 2013

### WEDGE GLOBAL

Engineering Consultant

- Analyzed braking system for a wave energy converter (simulations and calculations)
- Researched other alternatives to decrease cost of electricity

Torrance, California  
June 2013 to August 2013

### SO CAL PRODUCTION SOURCE (SCPS) UNLIMITED

Mechanical & Programming Intern

- Programmed lighting sequence for several machine prototypes
- Modelled and prototyped functional props for the movie "Interstellar"
- Hacked together a cooling rig for the "Interstellar" spacesuits

Hawthorne, California  
June 2012 to August 2012

### DATA SPECTRUM, INC.

Mechanical & Electrical Intern

- Troubleshooted several electrical testing rigs for Northrop Grumman
- Designed and drafted technical drawings for several components of a medical device

## ACTIVITIES

Cambridge, Massachusetts  
August 2013 to Present

### MIT TECHX | MAKEMIT

Committee Head

- Organized the first 200+ person hardware hackathon at MIT
- Led the development of branding and marketing
- Implemented a feedback loop to improve this year's event

Cambridge, Massachusetts  
August 2013 to Present

### DESIGN FOR AMERICA (DFA)

Founding Board Member

- Founded a new chapter on campus and received recognition from nationals
- Collaborated with a homeless shelter to provide a better solution for booking beds

Torrance, California  
August 2012 to June 2013

### ENGINEERING DESIGN & DEVELOPMENT (EDD) | DELTA TECHNOLOGIES

Deputy Project Manager

- Led a group of sixteen members to develop a self-morphing robot
- Spearheaded the development of a shroud-flight system
- Oversaw the design for manufacturing and fabrication process

Torrance, California  
August 2011 to June 2013

### FIRST ROBOTICS | 687 NERDHERD

Mechanical Lead

- Led the robotics team in designing, manufacturing, and testing basketball manipulators
- Designed and manufactured the intake and transfer system

Torrance, California  
August 2011 to June 2013

### SOLAR CUP

Founder & Project Manager

- Led a group of ten members to develop a wooden solar-powered boat
- Spearheaded the optimization of weight and energy efficiency of the boat