

# Johnathan Budd

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*Pursue my passion for applying Electrical and Mechanical Engineering in the fields of  
Automated Robotics, Renewable Energy, Transportation, and Medical Devices.*

## **Education**

**Harvard University** S.B. Electrical Engineering, Computer Science Secondary May 2015  
Cumulative GPA: 3.8 Concentration GPA: 3.9  
Selected to participate in: Program for Research in Science and Engineering (2013), UTEC Collaborative Field Course in Lima, Peru (2013), Program for Mind Brain Behavior in Trento, Italy (2012)

**Chaparral High School** May 2011

4.6 GPA, Varsity Letter – Tennis and Water Polo, John R. Wooden Scholar Athlete Award, Chamber of Commerce Student of the Year, National Merit Scholar, National AP Scholar, 2<sup>nd</sup> Degree Black Belt

## **Engineering Experience**

**Harvard University Teaching Fellow, ES 51: Computer-Aided Machine Design** September 2012-Present

- Lead weekly lab sessions for 20 students
- Teach students CNC milling, 3D printing, laser cutting, design, and basic shop skills
- Design curriculum for labs and final projects
- Promoted to head teaching fellow role in January 2013
- Grew course enrollment by 20%

**Wyss Institute for Biologically Inspired Engineering** June 2013- Present

- Design and engineer soft exosuit for DARPA Warrior Web Initiative
- Create and customize lightweight force sensors using CNC machining, 3D printing, and PCB fabrication
- Analyze signal processing and establish new protocols
- Goal attained to improve accuracy of previous sensor by 20% with a weight reduction of 50%

**School of Engineering and Applied Sciences Racing Team** September 2012 - Present

- Team Founder and current president
- Initiate and develop the largest undergraduate engineering project in the history of Harvard's
- Lead a team of 15 undergraduates to complete a competition ready vehicle by Spring 2014
- Secure and manage a network of corporate sponsors
- Design and perform testing for custom motor controller for ultra efficient operation

**Harvard College Engineers Without Borders** September 2011- Present

- Implement a sustainable water system for the community of Pinalito in the Dominican Republic
- Elected to the Executive Board in Spring 2013

## **Technical Skills**

Solidworks, Matlab, Verilog, CNC milling and lathing, manual machining, 3D printing, laser cutting, PCB design and fabrication, welding, analog electronics, digital electronics, Microsoft Office, C, PHP, HTML, JavaScript, SQL

## **Additional Experience**

**School of Engineering and Applied Sciences Tour Guide** June 2013-Present

- Lead tours for prospective students and visiting dignitaries

**Johnathan Budd's Lawn/ Handyman Service** January 2006 – June 2011

- Business Owner and Founder
- Grew business from 2 clients to servicing 10+ clients on a weekly basis
- Managed 3 employees
- Sold business to associate with extended commission basis as original owner

## **Activities and Leadership**

Harvard College Venture Partners – Board Member, Helping students start and grow companies

Harvard Men's Varsity Lightweight Crew ~ Harvard Club Triathlon Team ~ JV Sailing ~ Winthrop House Intramural Coordinator

## **Interests**

Tennis, Biking, Cooking, Camping, SCUBA diving