# **Devin Caplow-Munro**

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#### **Education**

University of Pennsylvania, School of Engineering & Applied Science, Philadelphia, PA Candidate for Bachelor of Science in Engineering in May 2017

Major: Mechanical Engineering & Applied Mechanics, Minor: Computer Science

Kings High School, Seattle, WA

### **Competitive Honors**

#### FTC Robotics World Championship 2012 & 2013 (Team 3717)

- 2013: 2<sup>nd</sup> place overall, *Rockwell Collins Innovate Award*, WA State Champion, *WA Inspire Award* Team Captain and Drive Coach
- 2012: 3<sup>rd</sup> place overall, WA State Champion Lead Designer

## **Paid Experience**

#### **Industrial Design:**

**Children's Hospital of Philadelphia,** Center for Injury Research and Prevention (Summer 2014 - Present) - REU Intern

- Eye tracking solution for driving simulator, designed and implemented
- Lead author of technical paper currently in review for SAE conference, available at: tinyurl.com/q4mzelt

#### Electroimpact, Inc. WA (Summer 2012, 2013) - Intern/Technician

- 2012: Developed high accuracy testing surface for Automatic Fiber Placement arm. (2012)
- 2013: Designed laser metrology process for machining large (>40ft) parts (2013)

#### **Teaching:**

Mechanical Design 101, University of Pennsylvania (January 2015 – Present) – TA

- Teach SolidWorks design, laser cutting and 3d printing as well as mechanical design principles.

## **Design Projects**

#### Gamma Type Sterling Engine (Fall 2013)

- All-metal heat engine designed and manufactured in machine shop class
- High-precision flywheel manufactured using CNC

#### Composite-Body Quadcopter Design (Spring 2013)

- Monocoque wings
- CAD design available at: tinyurl.com/odfpokt

#### **Technical Skills**

SolidWorks, MatLab, C/C++, Arduino, Java, Python, OCaml, Microsoft Office, Linux

Relevant Coursework: Mechanical Design, Thermodynamics, E&M, Statics, Machining, Computer Systems, Multivariable Calculus, Linear Algebra, Discrete Math, Engineering Calculus, Dynamics, Advanced CAD/CAM, Quantum Mechanics of Materials