DEVIN CAPLOW

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EDUCATION

University of Pennsylvania SEAS

Mechanical Engineering and Computer Science *2017* – GPA: 3.33

COMPETITIVE HONORS

FTC Robotics *World Championship* 2012 & 2013
Team Captain & Drive Coach 2013
- 2013: 2nd place overall, Rockwell Collins Innovate Award, WA State Champion, WA Inspire Award
- 2012: 3rd place overall, WA State Champion – Lead Designer

PAID EXPERIENCE

Children's Hospital of Philadelphia
REU Intern Summer 2014 – Spring 2015
- Eye tracking solution for driving simulator, designed and implemented
- Lead author of technical paper featured in SAE 2015 conference. Available here: http://decamun.github.io/SDASimgaze.pdf

ElectroImpact, Inc.
Intern/Technician Summer 2012 – Summer 2013
- 2012: Developed high accuracy testing surface for Automatic Fiber Placement arm. (2012)
- 2013: Designed laser metrology process for machining large (>40ft) parts (2013)

Mechanical Design 101 TA | University of Pennsylvania
Teaching Assistant January 2015 – Present
Teach SolidWorks design, laser cutting and 3D printing as well as mechanical design principles.

DESIGN PROJECTS

Gamma Type Stirling Engine | Fall 2013
- All-metal heat engine designed and manufactured in machine shop class
- High-precision flywheel manufactured using CNC

Composite-Body Quadrocopter 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