

ANDY COHEN

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SUMMARY

Interest and experience in robotics, additive manufacturing, biomedical engineering, entrepreneurship

EDUCATION

Bachelor of Science in Mechanical Engineering

Virginia Polytechnic Institute and State University

GPA: 3.96/4.00, Honors College

Expected graduation May 2018

Blacksburg, VA

Minors in Eng. Science and Mechanics and Biomedical Eng.

RELEVANT EXPERIENCE

Mechanical Engineering Department, Virginia Tech | Blacksburg, VA

Student Ambassador

April 2016-Present

- Showcase MechE department at informational sessions and recruiting events
- Communicate opportunities within VT MechE to prospective, incoming students

Design, Research, and Education for Additive Manufacturing Systems (DREAMS) Laboratory | Blacksburg, VA

Undergraduate Researcher

Oct 2015-Present

- Fabricate multi-material, micron-scale structures by augmenting existing mask projection micro-stereolithography (μ SLA) machine with multi-material capability
me.vt.edu/dreams/fabrication-of-multi-material-structures-using-microstereolithography/

BioactiVT Biomedical Design Team | Blacksburg, VA

Vice President of Project Growth

Oct 2014-Present

- Direct the transition from engineering design project to marketable product
- Designed, prototyped low-cost pulse oximeter for resource-poor settings: acoen8.weebly.com/tempo
- Drafted business plan, pitch for start-up based on pulse-ox (see Union Innovation Challenge awards)

Dynamical Systems and Control Laboratory, Johns Hopkins University | Baltimore, MD

REU Student Researcher: NSF Grant EEC - 1460674

May 2016-Aug 2016

- Designed new remotely operated vehicle (ROV) for underwater navigation and control research
- Coded Robotic Operating System (ROS) node for onboard pressure sensor: acoen8.weebly.com/rov

Frith Freshman Design Laboratory, Virginia Tech | Blacksburg, VA

Undergraduate Lab Assistant

Jan-Dec 2015

- Assisted students with design and manufacture of products using fabrication technologies
- Trained students on Universal laser system, uPrint 3D printers, and design for manufacturing

Mechanical and Aerospace Engineering Department, University of Virginia | Charlottesville, VA

Research Assistant

June-Aug 2015

- Retrofitted ShopBot PRSAlpha CNC system with improved hardware, wiring, and Mach 4 user interface
- Created technical documentation on the system and its installation: acoen8.weebly.com/shopbot

Terrestrial Robotics Engineering and Controls (TREC) Lab, Virginia Tech | Blacksburg, VA

Undergraduate Volunteer

Aug 2014-May 2015

- Designed and modeled parts for humanoid robots using Inventor, Unigraphics/Siemens NX
- Manufactured parts using CNC machining, other fabrication technologies

SKILLS & RELEVANT COURSEWORK

CAD/Fabrication	SolidWorks	Inventor	CNC	Laser cutting	Soldering
Programming	C++	ROS	Matlab	Git	Linux
Courses	Mechatronics: ME 4735		Rapid Prototyping: ME 4644		Biomechanics: BMES 4984

AWARDS

- Fan Favorite and 2nd Place awards at Union Innovation Challenge, 2016
- NBT Scholarship, Fabricators and Manufacturers Association, 2016
- Deborah and Daniel Tillotson Scholarship, VT Mechanical Engineering, 2016
- HC and Terry Yu Scholarship, VT Mechanical Engineering, 2016
- Academic Merit Scholarship, University Honors, 2016
- 2nd Place, Engineering World Health Design Competition, 2015