

LUKAS VACEK

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EDUCATION

- University of Pennsylvania, Class of 2017** ♦ Philadelphia, PA 08/2013 – *present*
- School of Engineering and Applied Science: Candidate for Bachelor of Science in Engineering, 2017
 - Major: Computer Science; Minor: Mathematics
 - Wharton School of Business: Candidate for Bachelor of Science in Economics, 2017
 - Concentration: Finance
 - Accepted to sub-matriculate into the Master of Robotics program
 - Dean's List 2013-2014; Cumulative GPA: 3.43; STEM: 3.53
- French International School** ♦ Hong Kong 09/2003 – 05/2013
- IB Diploma: 40 points; SAT I: Math 790, Reading 730, Writing 690; SAT II: Phys. 800, Chem. 760, Math II 750
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PROFESSIONAL EXPERIENCE

- GRASP Lab, University of Pennsylvania: Student Researcher** 05/2016 – *present*
- Designed guidance, navigation and control algorithms for indoor and outdoor use on aerial robots
 - Developed uses for aerial robots in agriculture, such as leaf sample collection and pest trap deployment
 - Worked on the OpenUAV (openuav.us) project to create an open-source platform for research and academic use
 - Developed a quadrotor to autonomously deploy and retrieve mosquito traps in the field
- Amazon: Software Development Engineer Intern** 05/2016 – 07/2016
- Data Ingestion and Gathering team, Machine Learning Platform, Alexa; received full-time offer
 - Engineered software used to collect the requisite data for machine learning in the speech platform
- MasterCard: Privacy & Data Protection Intern** 11/2015 – 05/2016
- Remote intern for team that protects consumer data, privacy and personal information
 - Work on anonymization of big data and creating policies to ensure data is not traceable back to the customer
- MasterCard: Process Optimization and Management** 05/2015 – 07/2015
- Created a metrics dashboard for executives to track internal and external performance using data analytics
 - Designed and developed a hybrid mobile application (iPhone, Android and Windows Mobile) for internal use
 - Worked with a team of fellow interns to develop a new product for an internal competition
- University of Pennsylvania: Teaching Assistant** 01/2014 – 12/2014
- CIS120 – Programming Languages and Techniques I
 - Responsible for teaching one recitation every week with ~20 students, grading exams and holding office hours
- Royal Yachting Association Sailing Instructor: Royal Hong Kong Yacht Club** 07/2012 – *present*
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ACTIVITIES

- FAA Private Pilot: Aircraft Single-Engine Land** 08/2015 – *present*
- Penn Aerial Robotics: President & Founder** 01/2014 – *present*
- Created club vision, structure and organization. Organize projects and lead competitions for the club.
 - 1st/4 Place: NSF CPS-VO Competition, October 2016
 - 18th/138 Place: AIAA Design-Build-Fly Initial Proposal, October 2016 (competition in April 2017)
 - Best Technical Paper Award: International Aerial Robotics Competition, August 2016
- Student Activities Council – Executive Board** 02/2015 – *present*
- Managed \$1.2 million budget allocated to undergraduate clubs and organizations
- Penn Mock Trial** 09/2013 – *present*
- Captain: Fall 2014; Best Attorney award: Yale Invitational Tournament 2015; Team qualified for nationals in 2015
- Penn Speech and Debate** 09/2014 – *present*
- Pennsylvania State Championship 2015: semi-finalist in debate, 5th place in extemporaneous speaking
- Consult for America** 01/2014 – 05/2016
- Consultant: 2014, Project Manager: 2014 - 2015, Lead Project Manager: 2015 - 2016
 - Managed 4 teams (~50 people) that consult for small businesses in Philadelphia
- Undergraduate Assembly** 03/2014 – 03/2015
- Allocate \$2.3 million budget to the branches of the undergraduate student government and body
- Penn Ski Team** 09/2016 – *present*
- Penn Band** 09/2013 – 09/2014
- Hong Kong Model United Nations** 01/2013 – 06/2013
- Secretary-General: led a 5-person team that organized the conference for 400 students from 40 schools
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PERSONAL

- **International experience:** Lived in Hong Kong (2003 – *present*, Permanent Resident) and Japan (1998 – 2003)
- **Computer programming:** Java, C++, C, Python, OCaml, HTML, PHP, JavaScript, CSS, Verilog, VHDL, Unix
- **Languages:** English (Native), Czech (Native), Mandarin (Intermediate), French (Intermediate)
- **Hobbies:** Skiing, windsurfing, kitesurfing, Advanced Open Water Diver, repairing vintage motorcycles and cars