Undergraduates Seeking Internships

Emily Chu

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YALE UNIVERSITY, NEW HAVEN, CT, **GPA 3.6/4.0** 2015-present
Bachelor of Science Degree in Mechanical Engineering

- Advanced physics, multivariable calculus, linear algebra, material science, strength and deformation, micro economics
- Design For America (2015-present) –Studio Lead and Curriculum Director: lead team meetings, manage design projects for improvement of New Haven community
- FIRST Robotics Mentor (2015-present) – Mentoring an inner-city high school team (Team 558), providing guidance from design through build processes, teaching fabrication and design, project management and leadership skills to approximately 30 students per year

THE WESTMINSTER SCHOOLS, ATLANTA, GA, ***High School Graduate,*** **GPA 3.8/40** 2008-2015

- Awards: Honor Roll, Surbaugh Award (excellence in math, science, and leadership), UPenn Book Award (leadership, community service, and innovation), FIRST Robotics Dean's List (upholds and spreads values of FIRST through community and the world), AP Scholar with Distinction
- Conversational in Spanish, Mandarin Chinese, Swahili, Beginning in Java
- Proficient in Microsoft Excel, Word, Power Point, Outlook, WordPress, and SolidWorks
- ACT 35 out of 36, AP Calculus BC, AP Computer Science, AP Biology, AP Physics C, AP Chemistry, AP English

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YALE UNIVERSITY, NEW HAVEN, CT 2016-present
Design Thinking Instructor

- Created and led Design Thinking workshops to various school groups and organizations both within Yale Campus and with outside schools. Over 90 people have attended these sessions since August 2016.
- Developed the curriculum using experience with First Data's Innovation Lab, focusing on:
  - Teaching importance of empathy in human centered design and uncovering user needs from interviews
  - Encouraging creative thinking and good group brainstorming techniques
  - Teaching fundamental prototyping skills

GEORGIA AQARIUM, ATLANTA, GA Summer 2016
Life Support Systems Engineering Intern

- Created the first water-usage calculation and monitoring system which is now used by several departments and has led to money and resource saving actions on the order of several million gallons and tens of thousands of dollars
- Carried out a personal "intern" project of laying pipe to a new exhibit's chemical mixing station
- Performed the yearly maintenance on UV sterilization units, heat exchangers, protein skimmer towers, and ozone generation and concentration monitoring systems. Taught others how to perform that maintenance and wrote Standard Operating Procedures for this, and other, tasks
- Executed daily processes of running the aquarium such as testing water quality, checking machinery function, and interfacing with animal care operations

FIRST DATA CORPORATION, ATLANTA, GA Summers 2015 & 2016
Innovation Lab Intern

- Designed, planned, executed, summarized and presented solo research project on millennials' technology and banking trends to help First Data better appeal to millennial clients. Presented findings to innovation lab and FD executives
- Team Lead for project on millennial recruiting. Planned and led team meetings, mapped project timeline, presented progress reports and final readout to FD executives. Findings came into play for summer 2016 recruiting cycle
- Worked with lab team on a Design Thinking project to redesign credit union online and mobile banking. Held primary responsibility for creating a new product feature. Wrote design briefs, conducted interviews, compiled market research, presented findings to teams and upper-level management
- Demonstrated proficiency in Stanford's "Design Thinking" process. Led Design Thinking training for others

GEORGIA INSTITUE OF TECHNOLOGY, ATLANTA, GA Summer 2014
Research Assistant/Intern Civil & Environmental Engineering

- Worked directly with PhD students and professors to run tests on new cement compounds – complied data and prepared result presentations. Learned to run compressive strength tests, vicat tests, flow tests, and calorimetry
- Presented findings and conclusions at group meetings

WESTMINSTER ROBOTICS, THE WESTMINSTER SCHOOLS, ATLANTA, GA 2010-2015
High School Team Captain, Fabrication Lead, Sponsorship and Presentation Lead

- Participated in FIRST Robotics Competition, built 120 pound robot in six weeks, operated manual mill, secured sponsorships, wrote award-winning business plan, presented formally to judges, organized 44-member team
- Dean's List Award winner (2014) – received one of only two regional student awards for embodying the morals of FIRST while demonstrating leadership and creating a lasting impact on the robotics community