Zach Pan

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Pittsburgh, PA 15289

Education

Carnegie Mellon University, GPA 3.3/4.0   Pittsburgh, PA, Aug 2014~May 2018
Bachelor of Science in Electrical and Computer Engineering
Additional Major in Biomedical Engineering
University of California, Berkeley   Berkeley, CA, July 2016-Aug 2016
Business for Arts, Science, and Engineering Program; Accounting, Organizational Behavior, Marketing

Internship

Everfine Photo-E-Info Corporation   Hangzhou, China
R&D Engineering Intern   May - June 2015
- Improved the performance of software programs and product hardwares by inspecting and debugging
- Constructed and tested prototypes with experienced technicians and engineers
- Promoted and demonstrated products and service solutions prototypes to 20+ potential customers
- Collected user feedback on LED measurement instruments through two field customer services and surveys, and presented feedback to the head of R&D Department

Everfine Photo-E-Info Corporation   Hangzhou, China
Quality Control Inspector   July - Aug 2014
- Guaranteed the high quality of raw materials and products as a QC inspector

Everfine Photo-E-Info Corporation   Hangzhou, China
Sales Intern   May - July 2014
- Solved product quality issues and offered guidance for customers in 3 field customer services
- Developed sales skills, answered 200+ phone calls from customers and received 10 groups of customers, introducing the company's labs, products and services

Projects

Microscope System for in vivo Imaging of Cancer Cells, Student Researcher   Pittsburgh, PA
Mar 2016 - Present

- Developed a microscope system for in-vivo imaging of malignant cells in cancerous tumors in Professor Maysam Chamanzar's Lab
- Designed and built the mechanical and optical components as well as automating the characterization setup for the acoustic-optic brain cell stimulation project

SpaceX Hyperloop Pod Design Competition, CMU Hyperloop Team   Pittsburgh, PA
Aug 2015 - Feb 2016

- Designed sensors and internal communications among all parts of Hyperloop pod
- Analyzed and demonstrated data of Hyperloop operation simulation, including total operation time, air bearing pressure, etc. with Python and OpenMDAO (an open-source simulation tool)
- Designed embedded control system and battery management system for the pod

Gesture-Controlled Robot Arm, CMU BUILD18   Pittsburgh, PA
Jan 2016

- Proposed the project idea and assembled a team of four
- Designed and built a robot arm which is controlled by hand gestures. The robot arm follows the gestures of one's hands, with the vast application in precision manufacturing, remote surgery, wearable robots, etc.

Customized Quadrotor, CMU Robotics Club   Pittsburgh, PA
Feb - May 2015

- Designed, chose parts for, built, tested, and debugged a quadrotor, achieving goal of flying, and realizing the function of carrying and dropping small packages at most around 2.5 pounds

Experiences

CMU Chinese Student Association   Pittsburgh, PA
Alumni Relations Contact   June 2015 - Present
- Established strong and long-lasting connections with Chinese Alumni of Carnegie Mellon University
- Conducted interviews with Chinese Alumni and share the interviews with all CSA members
- Collected the information of Chinese Alumni of CMU around the globe and be the bridge of CMU students and the alumni