WENLONG XIONG

COMPUTER SCIENCE AND ENGINEERING *at the* UNIVERSITY OF CALIFORNIA, LOS ANGELES

GPA: 3.61 | CLASS OF 2018

WORK & EXPERIENCE

Texas Instruments Inc, Dallas, TX — June 2016 – Sept 2016

Product Marketing Intern

+ Wrote Energia library in C/C++ to provide software support for newly released 4G LTE Evaluation Kit (EVK4) by Telit Communications PLC
+ Communicated with Telit marketers and engineers to plan co-marketing strategy for EVK4 BoosterPack with TI's LaunchPad product line
+ Participated in 2016 TI Intern Design Challenge by creating motion tracker using OpenCV, Python, and infrared emitters
+ Extended TI's online BoosterPack compatibility checker tool functionality

VCLA Center at UCLA, Los Angeles,CA — July 2015 – Sept 2015

Student Researcher, Programmer

+ Wrote Python program to generate 3D models from CSV files
+ Program performed real-time error checking against robot arm position
+ ICRA 2016 Robot Learning Research Paper contributor

Plethora, San Francisco, CA — June 2014 – Sept 2014

Factory Automation, Programming Intern

+ Designed, assembled, and tested automated CNC part-loading structures
+ Programmed Beaglebone/Arduino-controlled robotic systems
+ Tested and optimized in-house CNC-based manufacturing processes
+ Created CAM programs and operated 3-Axis, 5-Axis CNC Mills

ACTIVITIES & PROJECTS

UCLA IEEE Student Branch, Los Angeles, CA — July 2015 – Current

External Vice President (Current), Treasurer

+ Communicated with UCLA Electrical Engineering department and other engineering student clubs to shape future direction of student organization
+ Managed organization finances and approved over $25k of purchases

Startup Fair LA (Bruin Startup Fair), Los Angeles, CA — Aug 2015 – Current

Main Organizer, Sponsorship Lead

+ Organized 2 bi-annual startup-focused career fairs each with over 35 participating companies and a corporate recruiting information session

LeapCAD @ LA Hacks, Los Angeles, CA — Apr 2015 – May 2015

Python and Mel Script Programmer

+ Wrote program that manipulated 3D models using LeapMotion API
+ Connected motion capture output with Maya API using Python, MEL, C++

Micromouse Team, Los Angeles, CA — Oct 2015 – May 2015

C++ Programmer

+ Designed and built a rat sized robot that used a modified version of the FloodFill algorithm to navigate a 16x16 maze

SKILLS

PROGRAMMING & PROTOTYPING

+ C / C++
+ Python
+ Java
+ mySQL
+ PHP
+ BASH Shell
+ Arduino
+ TI LaunchPad
+ Beaglebone
+ Raspberry Pi

MODELING & MANUFACTURING

+ Solidworks
+ Inventor
+ Maya
+ HSMWorks
+ 3D Printing
+ CNC Mill
+ Lathe
+ TIG Welding

EDUCATION

+ Algorithm Design & Complexity
+ Operating Systems Principles
+ Computer Networking
+ Intro to Database Systems
+ Intro to Computer Architecture
+ Data Structures & OOP
+ Logic Design of Digital Systems
+ Linear Algebra & Applications
+ Differential Equations
+ Intro to Discrete Mathematics
+ Intro to Probability Theory
+ Artificial Intelligence (In Progress)

HONORS

+ Upsilon Pi Epsilon
  Computer Science Honor Society
+ Eta Kappa Nu
  Electrical Engineering Honor Society

CONTACT & INFO

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