XIAOZHOU ZHANG

3201 Race Street, Philadelphia, PA 19104

EDUCATION

• University of Pennsylvania

M.S in Robotics; GPA: 4.00/4.00

• Mao Yisheng Honors College, Southwest Jiaotong University

B.E in Mechanical Engineering; GPA: 3.60/4.00; Ranking: 1/21(Honors Class)

Philadelphia, PA Expected: Spring 2020

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Chengdu, China Sep 2014 - Jun 2018

EXPERIENCE

Research Assistant

• GRASP Lab Philadelphia, PA

Fall 2018 - present

- Assisted design arm module of HRI platform Quori
- Implemented D* algorithom for base's navigation in dynamical environments
- Set arm test program to detect defects

• Hefei Huaqi Innovation Technology Co.Ltd

Co-founder/Chief Technology Officer

Hefei, China

Dec 2018 - present

- Initiate and supervise product research and development division
- Accessed Windows 10 tablet to virtual machines hosted on self-assembled server with GPUs.
- o Configured Ubuntu hosts for USB and PCI passthrough

• Chengdu Shimmer Duckweed Technology Co.Ltd

Chengdu, China

May 2017 - Aug 2018

Co-founder/Chief Technology Officer

- Developed product Duckweed for treating algae bloom and monitoring water quality
- Designed and built hardware structures, sensing circuit module with temperature and PH sensors
- Programmed STC microcontroller and data transmission module with SIM900A GPRS DTU
- o Obtained Patent for Inventions #201710328765.1 and Patent for Utility Models #201720518974.8

Projects

• Vision Guided Screws Loosening System Based on a Six-axis Manipulator Undergraduate Final Year Project

Chengdu, China

Spring 2018

- o Designed and programmed image acquisition system with STM microcontroller and Baumer video camera
- Implemented camera calibration with MATLAB, image processing to locate screws with OpenCV
- \circ Solved inverse kinematics and programmed SRE-400 manipulator in PLC structured text
- Designed PC front end using Qt and VS

• Research of Rolling Bearing Abrasion Diagnosis Method

Chengdu, China

Undergraduate Research Training Project

Spring 2015 - Spring 2016

- o Collected vibration signals of damaged bearings from self-designed testing platform with acceleration sensor
- Implemented data normalization, smoothing processing and Fourier analysis with MATLAB
- Trained and implemented neural network model to diagnose the type of damage with MATLAB
- o Built database for future reference

SKILLS

- Programming: Proficient with C, MATLAB, Python; Experienced in JAVA, C++
- Engineering software & prototyping: Proficient with AutoCAD, SolidWorks; Experienced in 3D Printing, Lasercutting, CNC milling and turning
- Multimedia tools: Proficient with Adobe PS, Adobe Illustrator; Experienced in Adobe AE, LUMION