ANDY CHEN

[503-953-5077]
[andychen24@hotmail.com]

[Hardworking and motivated individual seek full time employment. I am well mannered, and a quick learner who is able to acquire new skills and ideas easily. Flexible, adaptable and willing to train and gain new skills.]

EXPERIENCE

[JUNE 2018] – [NOW]

[UTILITY OPERATOR], [CINTAS]

[Assisted in production plant with production duties based on work volume. Responsibilities include performing numerous positions in the production plant area and general duties throughout the facility as needed.]

[SEPTEMBER 2016] – [JUNE 2017]

[RESEARCH PROJECT], [OREGON INSTITUTE OF TECHNOLOGY]

[Work in a team and alongside professors to design, build and validate a low visibility light detection system for pilots during low visibility conditions. Experienced in facilitating meetings with team and project sponsors, designing, debugging and validating digital systems.]

[JUNE 2012] – [AUGUST 2012]

[WORKSTUDY], [INTEL]

[Work in an intensive learning environment that provides hands on technical engineering experience and team based project works such as design apps, build robots, research and market product, lead group discussions, give presentations, and network with professionals.]

EDUCATION

[JUNE 2011]

[HIGH SCHOOL DEGREE], [BENSON POLYTECHNIC HIGH SCHOOL], [GPA 3.6]

Major: Electric and Industrial Automation

- Repaired and programmed industrial conveyor belt.
- Experienced with industrial and residential house wiring.
- Built and programmed hydraulic chair for Benson Open House Tech Show.

[MARCH 2015]

[ASSOCIATE IN ELECTRONIC ENGINEERING TECHNOLOGY], [PORTLAND COMMUNITY COLLEGE], [GPA 3.4]

Major: Electronic Engineering Technology

- Design and build electronic circuitry in a lab environment.
- Developed work safety awareness.
- Built and programmed a WIFI controlled robotic vehicle for capstone project.

[AUGUST 2017]

[BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING], [OREGON INSTITUTE OF TECHNOLOGY]

Major: Electrical Engineering

- Designed and built electronic circuitry in lab environments, such as power supply, light dimmer circuit as well as buck/boost circuits.
- Built and programmed an autonomous robot with PID speed controller, collision avoidance system and direction correction system.
- Designed and debugged analog and digital electronic circuit and IC using laboratory test equipment.

TECHNICAL SKILLS

- Programming Language: C, C++, VHDL, Assembly
- Application: MATLAB, SPICE, Vivado/SDK, Labveiw, Arduino IDE, ExpressPCB, AutoCad, Visual Studio, Microsoft Office(Word, Excel, PowerPoint)
- Hardware System: FPGA(Nexys 4, Artix 7, ZYNQ), Microcontroller(Arduino Uno/Mega)
- Programmable Logic Controller: (Allen Bradley PLC)
- Equipment: Oscilloscope, Digital Multimeter, Soldering Iron, Spectrum Analyzer, Function Generator

SENIOR PROJECT

Flight Guidance System For Low Visibility Environment

- Worked in a team to design, implement and validate a low visibility light detection system for aircraft to see the runway and land in low visibility conditions.
- Facilitated weekly meetings with team and advisors and quarterly meetings with project sponsor.
- Experienced designing with Xilinx ZYNQ FPGA and Vivado SDK.
- Trained and assisted team members in various tasks.
- Validated working system in Sandia National Laboratory Fog Chamber.

TECHNICAL PROJECTS

Power Circuit Design Project

- Designed and built light dimmer, boost and buck circuits, utilizing oscilloscopes, digital multimeter and integrated circuits.
- Tested input and output at various stages for desired specifications.

Autonomous Robot Project

- Designed and built an autonomous robot with PID speed controller, collision avoidance system and direction correction system.
- Implemented on 8/16 bits ARM microcontroller processor with sonar sensors, accelerometer and IR sensors.