

ENGINEERING INTERN

Profile

Proficient Entry Level Electrical Engineer with excellent technical, analytical and communication skills. Willing to relocate anywhere in the US.

Skills

- Testing | Troubleshooting | Embedded Hardware & Software | Microprocessors | Computer systems | Hardware & Software design | Digital signal processing | Analog and Digital Filter design | Reading Circuit Schematics | Circuit Design and Analysis | Digital logic | Soldering | Project management | Electronics | Low and High voltage devices | Low voltage power consumption | Power Systems Analysis | Active Noise Cancelling (ANC) | Research and Development | Solar PV systems Design | National Electric Code (NEC) | Engineering Ethics | Failure Analysis | Logistics.
- Instrumentation: Oscilloscope | Logic analyzer | Multimeters |
- Applications: MS Visual Studio | MS Office | MAC OS | Matlab | Simulink | Mathcad | Verilog | Orcad | PSPICE | SolidWorks | AutoCAD | Inventor | PowerWorld | ETAP | HelioScope |
- Programming: C++ | C# | C languages.

Accomplishments

- **IEEE Robot Competition Systems Design (CAPSTONE) Spring 2013 - spring 2014** Collaborated with a team of 4 engineering students in the design and implementation of an autonomous robot that has to detect an oil rig on "fire", select and transport a specific tool in order to extinguish the fire. Lead the mechanical design of the robot; both chassis and robotic arm parts with 3-D printing technology and SolidWorks software.
- Acquired experience with the mechanical shop equipment and lab instruments while producing mechanical components and implementing and assembling electrical circuits.
- Acquired experience using the product development life cycle and risk assessment.
- Gained experience in the integration of the hardware and software subsystems and the testing process of the design.
- Competed in the 2014 IEEE Region V robotics competition.
- Spectrum Analyzer Real Time Signal Processing Fall 2013 Programmed a C6713 DSK board and implemented a digital Spectrum Analyzer.
- The program was written using Code Composer studio and the UI was developed in Visual Basics. Used the Software development lifecycle to develop the software of the system.
- Built the UI using Visual Basics.NET.
- Guitar Tuner Digital Signal Processing Spring 2013 - Engineered a guitar tuner implemented by programming a C6713 DSK board.
- Designed analog filters and digital filters to remove noise in an audio file using algorithms developed with Matlab and Simulink.
- Laser Project Computer Systems Spring 2013 - Created a compact computer system that controls and animates letters on a wall.
- Implemented the hardware schematics developed in assembly language on a MC68HC11 microprocessor.
- Acquired much experience in troubleshooting the system using a logic analyzer and oscilloscope.

Professional Experience

Company Name July 2015

- Conducted a successful research project on innovative use of Active Noise Control (ANC), 3-D Noise Mapping and Passive Noise Control systems as a solution for acoustical noise control issues in fast growing cities.

Company Name October 2014

- Successfully engineered a new transmission line to feed a new load in a city's transmission system using PowerWorld simulation software, and ETAP.
- Performed Three-Phase Power Systems circuit analysis of the new system.
- Performed cost analysis and allocation for the project.

Company Name September 2014 to August 2015 Engineering Intern

- Lead AutoCAD Drafting team of 3 in drafting 2D maps of Oil and Gas production sites.
- Contributed in building Spill Prevention, Control and Countermeasure (SPCC) plans for Oil and Gas Production Facilities, data entry, and various office duties assigned by my manager.
- Enhanced my communication and leadership skills within my team and my manager.

Education and Training

Oklahoma Christian University August 2015 Master of Science : Engineering Electrical Engineering City, State Engineering Electrical Engineering

Oklahoma Christian University April 2014 BSEE City, State GPA: 3.8 GPA: 3.8

Bachelor of Science : Electrical Engineering Electrical Engineering

Affiliations

IEEE Oklahoma Christian Chapter

Languages

English | French

HONORS & AWARDS

- Rwanda Presidential Scholarship
- Recognized as one of the top ten students nationally (based on academic merit) to receive a 4-year full ride scholarship at Oklahoma Christian University.

Technical Skills

3-D modeling, AutoCAD, C, C++, Circuit Design, Hardware, cost analysis, data entry, Digital signal processing, Drafting, drafting 2, Electronics, English, Failure Analysis, fast, French, leadership skills, logic, Logic analyzer, Logistics, MAC OS, Mathcad, Matlab, Microprocessors, C#, MS Office, Multimeters, NEC, Orcad, Oscilloscope, Programming, Project management, PSPICE, Research, Schematics, simulation, Software design, Soldering, SolidWorks, systems Design, Power Systems Analysis, , Troubleshooting, Verilog, MS Visual Studio