Andrew D'Alba

732-616-0870
Andrewdalba@gmail.com
18 Country Oaks Drive, Manalapan, New Jersey, 07726

Education

University of Hartford, West Hartford, CT *May 2019*
Bachelor of Science in Audio Engineering Technology
Associate of Science in Electrical Engineering Technology

Skills

- AutoCAD, PSpice, Quartus, LabVIEW, Eagle
- Programming for Arduino
- Use of Oscilloscopes and DMMs
- Reading Electronic Schematics
- Troubleshooting Electronic Circuits
- Soldering on PCBs

University of Hartford Courses

Solid State Fundamentals

- Designed electronic circuits using PSpice to achieve various tasks including amplifying audio signal
- Constructed circuits on breadboards using outboard voltage generators
- Tested the newly constructed circuits using oscilloscopes and digital multimeters

Digital Circuits

- Designed digital circuits in Quartus using VHDL and then tested them on an Altera DE2 board

Programming and Microcontroller Fundamentals

- Utilized the Arduino IDE and microcontroller in order to accomplish an array of tasks
- Completed multiple proof of concept projects including a slot machine game, a weather forecast machine, and a digital VU meter

Audio System Integration

- Analyzed schematics for audio systems
- Disassembled faulty audio equipment to test the circuits and troubleshoot issues
- Assembled audio cables with various connectors

Professional Experience

Reid Sound, West Windsor, NJ

Install Technician *July 2019 – Present*

- Responsible for installing custom audio-visual systems at universities and corporate environments
- Interpreted technical drawings during the install of audio-visual systems on-site
- Operated in accordance with regulatory safety guidelines
- Coordinated with the clients to meet expectations

Shop Technician *July 2019 – Present*

- Assembled custom audio-visual systems
- Communicated with the engineer to produce the best solution for the client
- Created custom cables based on the needs of each project
- Managed cables to ensure a tidy, easy to troubleshoot product

Projects

Weather Forecast Machine

- Developed a program using the Arduino IDE to receive and process data from multiple sensors
- Displayed the processed data on a monitor to report wind speed, precipitation level, humidity, temperature, and wind direction

RF Limiter

- Designed a circuit for an FM receiver system using PSpice to eliminate unwanted amplitude modulation
- Simulated the input from an intermediate frequency amplifier to test the functionality of the limiter

Solid State Low Distortion Audio Power Amplifier

- Designed a circuit using PSpice to achieve the desired specifications
- Utilized Eagle software to design a PCB to be fabricated
- Soldered components to the PCB and tested the functionality using an oscilloscope