Kyle R. Hess

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Education

UNIVERSITY OF WASHINGTON, SEATTLE | GPA: 3.6
· Bachelor of Science Electrical Engineering (Anticipated 08/2017)
  · Degree concentrations: Power Electronics and Large Scale Power Systems
· Relevant Coursework:
  · Power Electronics Design, Electric Drives, Energy System Analysis, Applied Electromagnetics
  · Undergraduate research – Special projects: Methods of 3-D Position Tracking

OLYMPIC COLLEGE, BREMERTON
· Associate of Science Pre-Engineering (Completed 09/2015), Honor graduate/Dean's List

Skills & Abilities

· **Electronics**: Proficient with circuit and PCB design, prototyping, and construction/soldering techniques
· **Lab Equipment**: Oscilloscopes(DSOs)/function generators, DMMs and handheld RF analyzers
· **Software**: Autodesk Eagle, LTSpice, NI Multisim, Microsoft Office Suite, AutoCAD, PLECS, Revit
· **Programming**: MATLAB, Arduino, Java, and Python

Projects

· Constructed Brushless DC Motor Controller (4/2017)
  · Designed driver circuit and closed loop speed and position control for a 48V 4A motor
  · Only project group to receive full credit and win EEIC poster contest
  · Consolidated final design onto PCB for inverted pendulum project
· Designed and manufactured an LED matrix display (11/2016):
  · Designed circuit and PCB layout using EAGLE with the desired SMD package types
  · Ordered professionally fabricated boards of my design and soldered components to the boards
  · Programmed an Atmel microcontroller to control the display via serial communication
· Built low-power regulated DC-DC & AC-DC converters (9/2016):
  · Simulated boost/buck converters with Multisim to determine exact component values
  · Calculated parameters for a type 2 K-factor controller with MATLAB
  · Built prototypes on a breadboard for testing, soldered final design on perf-board
· Designed an analog LED VU-meter (2/2016):
  · Employed op-amps as comparators to measure the level of an input audio signal
  · I sketched the basic circuit design, calculated component values, and finished the PCB layout with EAGLE

Work Experience

INTERN | BCE ENGINEERS INC. | FIFE, WA | 6/2016 - 9/2016
· Revised building electrical plans to NEC specifications using AutoCAD
· Designed indoor/outdoor lighting layouts in accordance with IES recommendations
· Collaborated with building engineers and architects to ensure client expectations were met

APPRENTICE | CLASSIC CERAMIC TILE INC. | BAINBRIDGE ISLAND, WA | 6/2011 - 9/2013