

# Daniel J. Taylor

**OBJECTIVE:** To provide my expertise in Electrical Engineering and Leadership to your company.

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## WORK EXPERIENCE

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**Itron:** *Senior Systems Test Engineer* – Liberty Lake, WA

October 2023 – Present

**Electric Meter Testing:** I lead a team of 4 engineers that test single and multiphase electric meters used by Power Utility Companies around the world.

- Wrote detailed test plans to be executed by the testers on my team
- Created specific test cases based on product features and specifications
- Taught new hires the fundamentals of AC electricity as applied to our meters
- Gave presentations to directors with the final results of each program

**Leadership and Design:** Part of my time is allocated for leading design projects that will improve the safety and efficiency of our test setup.

- Worked with another EE to design a meter rack that holds 30 units and improves testing efficiency and safety through remote switching schemes and controls
- Oversaw the installation of 3 phase power in the lab
- Led the design of a remote meter switch that connects, disconnects, or reverse wires a meter remotely decreasing test time and improving safety of the meter rack.
- Led the design of a custom load box to replace noisy fans and unsafe heaters.

**Teaching and the Arts:** I took time off to pursue professional skills in the fields of Teaching, Art, and Music. Listed below is a chronology of the work and education during this time.

**University of Idaho:** *Power Lab Instructor* – Moscow, ID

Aug 2022 – Mar 2023

**North Idaho Rock School:** *Kids Guitar Instructor* – Coeur d'Alene, ID

Sep 2021 – Dec 2021

**North Idaho College:** *Art and Music Studies* – Coeur d'Alene, ID

Aug 2019– Nov 2022

**Poudre School District:** *7<sup>th</sup> Grade Math Teacher* – Fort Collins, CO

Oct 2018 – May 2019

**Hewlett-Packard:** *Electrical Hardware Engineer IV* – Boise, ID

Nov 2012 – May 2017

**Circuit Design:** Think of taking your smartphone and putting it on a printer. I designed the circuit board that drives touchscreens found on HP's High End LaserJet Printers.

- Implemented circuitry to support an infrared touch screen control panel
- Circuits included 32V boost converter, audio driver and filter, LVDS to LCD display chip, STM32 MCU, LVDS Pi filtering, and Neonode's MCUs and Infrared Electronics.
- Promoted architectural changes that saved \$200,000 in lifetime production costs
- Planned and managed time to meet a two-year product development schedule
- Hosted design review meetings covering my board design
- Performed ESD tests to meet FCC regulatory and internal requirements up to 18kV

**Firmware:** Provided embedded firmware for early product turn on and test

- Programmed STM32F030 microcontroller
- Functions included the use of SPI, ADC, PWM, Hardware Timers, and an Interrupt Service Routine to put the MCU in shutdown based on an external signal

## **EDUCATION**

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**University of Idaho:** *B.S. in Electrical Engineering (ABET)*

GPA 3.8

May 2012

### **Areas of Emphasis and Certificates:**

- Circuit Design, Power Systems, Leadership, and Research
- Passed Fundamentals of Engineering Exam (FE/EIT)
- Teaching Assistant of the Year Award

### **Post-Bachelors Master Classes:**

- ECE 528: Understanding Power Quality
- ECE 587: Sustainable and Renewable Energy

## **COMPUTER & EQUIPMENT SKILLS**

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Experience with the following programs:

- Cadence Allegro Schematic and PCB Design
- LabVIEW
- Mathcad
- Excel, Word, Outlook, PowerPoint, OneNote, Project, and Visio

Programming Languages:

- Embedded C/C++

Measurement Equipment:

- Oscilloscopes, Spectrum Analyzer, DMM, Thermal Imaging, Programmable Power Supplies, Waveform Generators, and Light Spectrometers

## **HOBBIES**

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The Outdoors, Art, and Music

- Cycling
- Guitar
- Drawing