Evan McCullough

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Education

Purdue University – West Lafayette, IN   **May 2017**
Bachelor of Science in Mechanical Engineering

University of Denver – Coding Bootcamp   **August 2023**
- Covers a full stack, including HTML5, CSS3, JavaScript, jQuery, Express.js, React.js, Node.js, progressive web apps, agile methodology, computer science, database theory, MongoDB, MySQL, Git, and more.

Solar Energy International – Online   **August 2015**
PVOL101: Solar Electric Design and Installation
- Establishes the fundamental concepts required for safe, code-compliant design and installation of photovoltaic systems, with a focus on residential-sized, grid-direct solar electric systems. PVOL203: Solar Electric Design (Battery Based)
- Explores the design and installation considerations unique to battery based PV systems, including stand- alone (off-grid), grid-tied with battery backup, and hybrid systems.

Github Portfolio
https://github.com/eqmccullough?tab=repositories

Work Experience

Staff Tennis Professional – Southern Indiana Tennis Club – Sellersburg, IN   **October 2019-April 2023**
- Give private lessons to clients of all ages
- Lead tennis clinics of varying sizes and skill levels
- Coached Floyd Central High School, Scribner Middle School, and Highland Hills Middle School Tennis Teams

Personal Trainer – JustFit – Louisville, KY   **January 2021-Present**
- Train clients to improve body composition through resistance exercise
- Train clients to achieve athletic goals through customized programming

Mechanical Engineer – Easi Engineering – Louisville, KY   **September 2019-March 2020**
- Was contracted out to Material Handling Systems to work on backlog of unsolved issues with various part and assembly drawings of extendable conveyor belts
- Utilized Autocad Inventor to correct part drawings.

Mechanical Designer – Emerson Topworx – Louisville, KY   **January 2019-September 2019**
- Customize mounting kits for the DVC6200 series sensor according to customer specifications with Creo Direct Modeler
- Manipulate old mounting kit designs with AutoCAD Inventor when necessary
- Create models and associated mechanical drawings for sheet metal parts using GD&T
- Communicate with different stakeholders around the world to ensure accurate design

Drafter 1/Relay Tech 1 – Rainbow Design Services – Louisville, KY   **September-December 2018**

- Utilize Bentley MicroStation to draft strand and coaxial equipment for maps used by cable companies
- Perform design calculations to ensure proper equipment is placed and appropriate levels of signal reach customer
- Moved to Quality Control team due to high accuracy and performance where I made corrections to work from other employees

Solar Technician – Whole Sun Designs – Bloomington, IN   **June 2017-January 2018**

- Installed solar panels on residential and commercial sites on ribbed metal, metal shingle, shingle, and standing seam roof types and ground mounted systems. Experience includes both roof and electrical components of installation.
- Managed online energy monitoring for clients

Design Intern – Solar Energy Solutions LLC – Lexington, KY   **June-August 2016**

- Prepared design documents for the installation of solar panel systems for residential and commercial applications including wiring schematics, racking diagrams, string diagrams, operation and maintenance manuals, and interconnection agreements.
- Used software applications such as Helioscope and PVSyst to predict solar system output and assist in the system design process.

Software Engineer Intern – Wyle Laboratories –Colorado Springs, CO   June-August 2015

- Supported the Ballistic Missile Defense operation of the Missile Defense Agency
- Tested software features for the Ballistic Missile Defense International Simulation (BMD I-Sim)
- Implemented automated software testing for Version 8.3 of BMD I-Sim through creating test scenarios and writing database queries with SQL.
- Acquired a Secret Level Security Clearance
- Worked with software based on C# and C++ languages

Skills

- HTML5
- CSS
- JavaScript
- C++
- C#
- Git
- Node.js
- MongoDB
- MySQL
- Autocad
- Agile Methodology
- PVsyst
- Helioscope
- React