

# James Struble

Round Rock, TX

-Email me on Indeed: <http://www.indeed.com/r/James-Struble/99b3c127c0b6e931>

## Work Experience

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### **Electrical Engineer II**

Atwell - Austin, TX

November 2020 to Present

#### Key Job Experience:

- PV EPC design on large-scale solar projects.
- EPC design on several large-scale onshore wind projects.
- Design of LVAC, DC, and MVAC lines in trench and CAB systems.
- Working knowledge of PV Case to design solar arrays in Auto cad Civil 3D.
- Extensive use of Python and Matlab to analyze power system data.
- Developing Generator Interconnection Applications with multiple ISOs.
- Developing bill of quantities for solar layouts.
- Interpreting technical specifications that affect performance of solar modules, inverters, trackers, pad-mount transformers, and other electrical equipment.
- Performing solar calculations, such as string counts, GCR, DC/AC ratios, Power factors, impedance values, etc.
- Calculating underground cable ampacities using CYMCAP.
- Using ETAP to generate impedance values for overhead transmission lines.
- Design of overhead and underground transmission and collection lines.
- Performing QAQC reviews of drawing packages for submittal to clients.
- Preliminary design for projects ranging from 115 to 345kV including plans for new lines, upgrading existing lines, and adding attachments.
- Creating bill of materials lists in excel spreadsheets.
- Development of scripts to perform calculations/run programs in excel and AUD.
- Development of structure framing detail drawings, specifying all parts, attachments, insulators and grounding details for wood and steel pole structures.
- Develop plan and profile drawings for each project.
- Develop a full design package that includes all construction details, such as construction staking tables, stringing charts, cable schedules, etc.
- Perform calculations to ensure safety and performance for the equipment.
- Maintain familiarity with the standard codes for transmission line design (NESC, GO95 and RUS manual).
- Proficiency in Auto cad and Autocad Civil 3D.
- Proficiency in PLS-CADD for overhead transmission line design.
- Document control on several large, multi-disciplinary projects.
- Support in project management on submittal and equipment reviews.
- Proficiency in Microsoft sharepoint, using and programming in excel, word, powerpoint, and all other Microsoft Office platforms.
- Coordinating with team members in Microsoft Teams, Zoom, and Skype for Business.
- Work with multiple file sharing sites, such as ProjectWise, Box, PIMS, Sharepoint,

Filezilla, and e-room.

## **Electrical Engineer I/II**

Mott Macdonald - Austin, TX

September 2018 to November 2020

### **Key Job Experience:**

- PV EPC design on large-scale solar projects.
- EPC design on several large-scale onshore wind projects.
- Design of LVAC, DC, and MVAC lines in trench and CAB systems.
- Working knowledge of PV Case to design solar arrays in Autocad Civil 3D.
- Extensive use of Python and Matlab to analyze power system data.
- Developing Generator Interconnection Applications with multiple ISOs.
- Developing bill of quantities for solar layouts.
- Interpreting technical specifications that affect performance of solar modules, inverters, trackers, pad-mount transformers, and other electrical equipment.
- Performing solar calculations, such as string counts, GCR, DC/AC ratios, Power factors, impedance values, etc.
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- Develop plan and profile drawings for each project.
- Develop a full design package that includes all construction details, such as construction staking tables, stringing charts, cable schedules, etc.
- Perform calculations to ensure safety and performance for the equipment.
- Maintain familiarity with the standard codes for transmission line design (NESC, GO95 and RUS manual).
- Proficiency in Autocad and Autocad Civil 3D.
- Proficiency in PLS-CADD for overhead transmission line design.
- Document control on several large, multi-disciplinary projects.
- Support in project management on submittal and equipment reviews.
- Proficiency in Microsoft sharepoint, using and programming in excel, word, powerpoint, and all other Microsoft Office platforms.
- Coordinating with team members in Microsoft Teams, Zoom, and Skype for Business.
- Work with multiple file sharing sites, such as ProjectWise, Box, PIMS, Sharepoint, Filezilla, and e-room.

### **University Experience**

- Proficient programming skills in Python, Java, MATLAB, C++, and basic machine code for microcontrollers.
- Experienced in robotics design, kinematics, and coordinate conversion in MATLAB.
- Experienced in designing power systems and electric circuits in Simulink.

- Power Electronics Course Project: Implemented a Permanent Magnet Synchronous Machine in Simulink to simulate the process of a wind turbine to produce power.
- Extensive use of oscilloscopes and multi-meters, both analog and digital, in analog and digital circuit courses.
- Experienced in instrumentation and implementation of control systems in electronics and industrial applications.
- Extensive experience in computer organization and architecture.

## Education

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### **Bachelor of Science in Electrical Engineering**

Lamar University - Beaumont, TX

May 2017

## Skills

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- Python
- C++
- Java
- MATLAB
- Electrical engineering
- Embedded software
- AutoCAD
- Math
- Software development
- Project management
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## Assessments

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### **Advanced attention to detail — Expert**

August 2021

Identifying differences in materials, following instructions, and detecting details among distracting information

Full results: [Expert](#)

### **Software developer fit — Expert**

July 2021

Measures the traits that are important for successful software developers

Full results: [Expert](#)

### **Basic attention to detail — Expert**

August 2021

Identifying differences in materials, following instructions, and detecting details among distracting information

Full results: [Expert](#)

## **Spreadsheets with Microsoft Excel — Expert**

July 2021

Knowledge of various Microsoft Excel features, functions, and formulas

Full results: [Expert](#)

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