Evan Palmer

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EXPERIENCE

National Oilwell Varco Renewable Energy R&D, *Navasota***,** *Texas*　　　　　**May 2023-August 2023**
Research & Development Engineer (Internship)

- Constructed a fully functional prototype of a sun tracking solar array.
- Developed a more efficient and user-friendly functional prototype of a current product with a cost reduction of ~90%.
- Produced a Python model to simulate and display load bearing support stress.
- Improved design prototyping by adding adjustable parameters using numpy, pandas, and matplotlib.

Trident Research LLC, *Austin, Texas*　　　　　**May 2022-August 2022**
IT Specialist (Internship)

- Assisted IT department to plan, budget, and construct an accredited stand-alone government network enclave**.**
- Conducted hardware and software trade studies to determine optimal network devices for speed and efficiency.

Undergraduate Research Assistant, *Texas A&M University*　　　　　**January 2021-May 2023**

- Implemented and compared machine learning models for the prediction of the electrochemical performance of superconductors using scikit-learn, numpy, and pandas.
- Corresponded with other members within research group virtually to draft research papers.

Capstone Project Halliburton Wellbore Sensors, *Texas A&M University*　　　　　**August 2022-May 2023**
Designer

- Applied engineering design principles to meet client requirements and needs.
- Designed and created test setups through Solidworks modeling to analyze performance of sensor package solutions using Python signal processing packages.
- Simulated downhole well conditions and chemical solution reactions using Ansys.
- Conducted trade study of oil and drilling products to evaluate cost effectiveness and usage for customer needs.

MEEN 408 Agricultural Harvest Bot, *Texas A&M University*　　　　　**August 2022-December 2022**
Project Manager and Designer

- Created Matlab program to direct end-effector positioning of robotic manipulator using kinematic equations to successfully harvest tomatoes.
- Coordinated meeting times and due dates with team members on tasks to meet deadlines.

Robomasters, *Texas A&M University*　　　　　**August 2021-May 2023**
Robot designer

- Designed and constructed feeding and aiming subsystems of dart launching robot in Onshape.
- Coordinated with team lead to delegate tasks and train new members.

Future Set Tech Camp, *Austin, Texas*   **June 2021-August 2021**
Programmer and Instructor
- Introduced and developed kids' programming skills in Python, JavaScript, HTML, and C++ through game development and web design.
- Improved course structure and design through feedback to improve engagement and clarity of concepts.

EDUCATION
Texas A&M University, *College Station, Texas*   **December 2023**
Mechanical Engineering - Bachelor of Science
Computer Science - Minor

PUBLICATIONS
"Data-Driven Predictive Electrochemical Behavior of Lignin-Based Supercapacitors via Machine Learning," Energy & Fuels, 2021

"Machine learning-assisted materials development and device management in batteries and supercapacitors: performance comparison and challenges," Journal of Materials Chemistry A, 2023

SKILLS
Ansys, Solidworks, Simulink, MATLAB, PID control, carpentry
Linux, Python, JavaScript, C++, Java, Haskell, machine learning