Eduardo Santibañez

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OBJECTIVE

Seeking a to apply my programming skills and electrical engineering work experience to a full-time power engineering role

SKILLS

- Languages: Python | Java | C++/C | Django Framework | Html | CSS | TensorFlow
- Software: PSSE | PowerWorld | TARA | MATLAB | Simulink
- Hardware: PIC 32MK1024GPE100 | TI Delfino F28377D | Arduino | Oscilloscope

RELEVANT COURSEWORK

ECEN 460: Power Systems Operation and Control   ECEN 489: AI and Machine Learning with Python
ECEN 489: Android App Development   ECEN 447: Digital Image Processing

PROJECTS

Hybrid Home Optimization

- Using C I programmed a PIC32 microcontroller to communicate via I2C, SPI, and UART, to control an AC/DC convertor and DC/DC convertor

Microcontroller Motor Control

- Used the C programming language to perform electrical motor control on a synchronous and step motor with the TI Delfino F28377D microcontroller

EDUCATION

Texas A&M University, College Station, Texas   December 2019
Electrical Engineering   Cumulative GPA:2.9
    Last 30 Hours GPA:3.1

WORK EXPERIENCE

MISO, Carmel, Indiana   May 2019 – August 2019
Outage Coordination Intern

- Created remedial steps using PSSE, TARA, EMS, and power engineering judgement in anticipation of power outages and coordinated the analysis with transmission and generation owners to ensure reliability of the grid
- Used the PSSE API and Python to automate a lot of power engineering processes
- Used PSSE, Power Gem TARA, and the GE's EMS software to perform N-1 contingency and power flow studies
- Created a Graphical User Interface using Java, and the JavaFX framework that increased efficiency in performing Outage Coordination Studies

CenterPoint Energy, Houston, Texas   January 2018 – May 2018
Pad mount Engineer

- Used Django, Python, and the google maps api to create a Web application GUI that automated form and work order creation, and allowed users to save and manage projects
- Analyzed one lines, diversified load analyses, and used micro station to design underground distribution systems for customers
- Assisted in customer meeting to outline the construction project sequence and service standards

Texas A&M-Qatar Smart Grid Center, Doha, Qatar   May 2017 – July 2017
Research Intern

- Developed and simulated island mode Micro Grid models using Simulink and Etap software
- Utilized load flow and short circuit analysis to simulate grid.
- Analyzed control systems of PV, Wind and Energy Storage technologies to correctly model grid