

# Joo Min Yeo

POWER SYSTEMS · ELECTRICAL ENGINEER

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## Education

### University of California, San Diego

San Diego, CA, USA

B.S. IN ELECTRICAL ENGINEERING

2016 - 2020

- Focusing on Power Systems Engineering: Transmission, Distribution, Grid Operation, Micro Grid, Transformers, Smart Grid, Renewable Energy Sources

### Lunds Tekniska Högskola

Lund, Skåne, Sweden

STUDY ABROAD EXCHANGE

Fall 2019

- Electrical Power Systems, Electric and Hybrid Vehicles Technology, Cryptography

## Experience

### Eskom

Johannesburg, South Africa

POWER SYSTEMS ENGINEERING INTERN

Mar - Aug 2019

- Transmission line fault investigation
- Siemens AFAS (Automated Fault and Disturbance Analysis Service) Maintenance and Hardware upgrades
- Calculated feeder settings and transformer protection coordination
- Assisted in operations planning, SCADA, and load forecasting
- Researched the optimisation of generation, transmission, and distribution of power
- Inter-department rotations at National Control Centre, Operations Planning, NCSS(National Control Support Services)/SCADA, and Field Ops

### NASA Jet Propulsion Laboratory

Pasadena, CA, USA

SOFTWARE AND COMPUTING SYSTEMS ENGINEERING INTERN

Summers of 2016, 2017

- Developed Engineering Analysis Subsystem that will provide a new suite of tools for rapid assessment of spacecraft health and state
- Developed simulation software with Small Scale Flight Software Group for the autonomous Mars rover for the Mars 2020 Project
- Create modules for data transfer and management

### UCLA Robotics and Mechanisms Laboratory (RoMeLa)

Los Angeles, CA, USA

RESEARCH INTERN

Oct 2014 - Apr 2016

- Researched "Modification of a Hexapod to Enable Blind Locomotion across Uneven Terrain"
- Assisted in a classified research with the ONR (Office of Naval Research)

## Projects

### Training at Eskom

Germiston, Gauteng, South Africa

DOER AND CHECKER

Mar - Aug 2019

- Snapshot Converter: Developed an optimised and more efficient way of converting a snapshot of an electrical grid to a simulation casefile
- Protection relay settings for HV and EHV feeders and transformers
- Created animations as teaching agents to explain various concepts of transmission protection and maintenance such as mutual coupling, trip zones, and substation automation principles

### DARPA Robotics Challenge Finals (RoMeLa THOR-OP)

Pasadena, CA, USA

RESEARCH INTERN

Jun 2015

- Assembled and repaired the robot on-site at the U.S. Department of Defence hosted robotic competition

## Skills

### Programming

C/C++, Python, Java

### Software/Hardware

PowerFactory, PSSE, MATLAB, SOLIDWORKS, Mathcad, CNC

## Language

### English and Korean

Native

### Spanish and Swedish

Basic