

# BHARGAV SAI BADUR

Contact No.: +1(315) 603 3667 | Email ID: [bhargav555.v@gmail.com](mailto:bhargav555.v@gmail.com)

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## EDUCATION

**Clarkson University**, Potsdam, NY

Masters in Electrical Engineering | Graduated May 2024

GPA: 3.77 | **Key Courses:** Control and Management of Modern Electric Power Distribution Systems, Data Analysis Complex Systems, Microgrid Design and Control, Power System Planning, Deep learning, and Digital Signal Processing.

**Panimalar Engineering College**, Chennai, India

Bachelor of Engineering. *Electrical & Electronics Engineering* | Graduated May 2020

## RELEVANT EXPERIENCE

**Conversion of CYME Model to OpenDSS using Python**, Clarkson University, Potsdam, NY

**Supervisors:** Dr. Leo Yazhou Jiang and Dr. Thomas Ortmeyer

January 2023-February 2024

- Converted a CYME model to OpenDSS using a Python script, demonstrating proficiency in power system analysis as well as programming.
- Conducted detailed feeder characteristics analysis and integrated smart inverter control for photovoltaic (PV) systems, resulting in improved voltage regulation, system stability, and loss reduction.
- Produced comprehensive voltage profile comparisons and reactive power injection analyses, showcasing the technical benefits of smart inverter control in power distribution networks.
- Gained an in-depth grasp of distribution networks through the model conversion process, obtaining valuable insights into the complexity of power system operation and management.

**Wind Power forecasting** | **Clarkson University**, Potsdam, NY

August 2022 – January 2023

- Collected a decade's worth of wind data from multiple sources, including NOAA and local weather stations in the New York area which is hourly data.
- Developed a short-term wind power forecasting model using Time Delay Neural Network (TDNN), optimizing the model for time-series prediction.

**Project Engineer and Design Engineer** | **GLES** | Hyderabad, India

May 2021 – June 2022

- Led and completed a number of crucial projects that had a substantial influence on the organization's efficiency and sustainability goals.
- Designed solar rooftop panels for installations using AutoCAD, easing the technician's workflow and assuring exact project execution.
- Led the planning and execution of a key project to install solar street lights, including the strategic placement of designs and the supervision of the installation of ground mounting rods.
- Demonstrated outstanding project management skills by directly supervising on-site activities, accelerating project timeframes, and ensuring quality control.

## OTHER EXPERIENCE

**Part-Time IT Support Specialist** | **Clarkson University**, NY

August 2022 – Present

- Provided walk-in support to students, addressed software-related queries, and handled unanticipated classroom crises with efficiency.
- Developed a calm and composed manner in high-pressure situations, adeptly handling and de-escalating stressful meetings with those suffering technical challenges or frustrations.

**KUKA robotic hand**, SIEMENS

Spring 2019

- Learned how a robotic arm is controlled by a computer program that receives input from the sensors and sends commands to the motors.
- The computer program can be programmed using KRL (Kuka Robot Language) to perform specific tasks, such as grasping and manipulating objects.

## TECHNICAL SKILLS

- Proficient in Microsoft Office Applications, MATLAB, PSCAD, PLEXOS, CYME, OPENDSS, Python and AutoCAD

## Extracurricular activities

- Playing chess, Cricket, Reading Manga and Novel in a free time