LONG N. H. PHAN

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EDUCATION

Case Western Reserve University, Cleveland, Ohio
Bachelor of Science, Computer Science, Expected May 2022
Minor: Electrical Engineering
GPA: 4.0
Relevent Course: Introduction to Programming in Java, Data Structures, Artificial Intelligence (Audit), Discrete Math

WORK EXPERIENCES

Vietstar Industry Corporation; Full-time Intern/Electrician; June-July, 2018

- Assembled and electrical wiring low-voltage electrical switchboards based on assembly drawings and Schneider Electric transfered technology
- Comfortable with AutoCAD

ETEST-Coaching & Training Center; Organizer / Event Coordinator; summer 2018

- Involved in organizing a non-profit Science Camp for 30 Vietnamese Students in Ho Chi Minh city, consisting of Neuroscience, Robotics, Pure Mathematics fields, inviting STEM students from Caltech, UC Berkeley, and NTU to be mentors

LEADERSHIP AND ACTIVITIES

SOLAR DURABILITY AND LIFETIME EXTENSION CENTER; Research Assistance; CWRU, Sping 2019

- Data Analysis in the PERC cells project: Modeling of solar module power loss and characteristics of modules
- Familiar with R and data cleaning

Case Rocket Team; Case Westen Reserve Universtiy, August 2018 - present

- Design and Build a rocket qualifited for the National Association of Rocketry Level 1 HPR Certification
- Involved in the System Subteam to design and build a radio system that allow the rocket to live streaming at the 10,000 feet altitude for the FAR MARS 1030 - held in Mojave, CA in June 2019
- Solved the technical challenge of guiding the camera system to recorded the rocket when landing

Sharing and Caring Kitchen; Volunteer, United Methodist Church of Babylon; Sept 2017- May 2018

- Volunteered to help run a soup kitchen, feeding 50-70 homeless people every Sunday
- Collaborated with another student to run the Kitchen due to the chairperson's surgery, from October to December, 2018

Hydrogen Horizon Automotive Challenge (H2AC); Spring 2018

- Designed and built a RC race car powered by hydrogen fuel cell with 4 other students
- Emerged with the Innovation Award in the H2AC Final Long Island 4-hour race, New York

Greenhouse and hydroponic room; Project Manager, Carney's Future Farmers of America; 2016-2017

- Proposed a construction of a greenhouse and hydroponic room at Carney High School, which was approved and completed with the first batch consisting of 75+ tomato plants and 50 leafy greens

SKILLS

Programing language:
Comfortable: Java, R
Familiar: Python, JavaScript

PROJECTS

- **Battery Health Report:** (Personal Project)
  - Extracted raw battery data from Windows and cleaned to get the battery health data
  - Analyzed how the capacity degrade over time compare to the Design Capacity
  - Built with Java,Renjin, R and HTML: github.com/justinphan3110/Battery-Health-Report
- **DeBruijn Card Trick:** (CWRU Local Hack 2018)
  - Employed De Bruijn arbitrary sequence to create a magic trick based on a sequence of binary number based on the color of the 52-cards
  - Built with Java: github.com/justinphan3110/DeBruijn-Card-Trick