

# Vivian Nguyen

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## Robotics Engineer | Data Scientist | EIT

### EDUCATION

Fundamentals of Engineering Exam: FE Mechanical

Tentative - 11/22/2019

#### Bachelor of Science: Mechanical Engineering

December 2019

Minor: **Engineering Design Graphics**

Southern Polytechnic College of Engineering and Engineering Technology

**GPA 3.22**

Kennesaw State University, Marietta, GA

### SKILLS

- **Robotics:** ROS 1, Machine Vision, Perception, Sensor Fusion, Arduino, JETSON Embedded
- **Data Science:** Python, Machine Learning[TensorFlow/Keras, PyTorch, CuPy, CUDA acceleration], NumPy, Pandas
- **Engineering:** SolidWorks [CSWP, DT, FEA, CFD], AutoDesk Fusion 360, Additive Manufacturing
- **Communication:** Technical Communication
- **DevOps:** Linux Remote over SSH, 24/7 Server Administration
- **Computer:** Ubuntu BASH, Git Version Control, Microsoft Office
- **Soft Skills:** Problem Solving, Management, Public Speaking, Professional Communication, People Skills

### WORK EXPERIENCE

#### Data Science Immersive Fellow

August 2020 - Present

General Assembly, Remote

- 480-hour immersive program to apply statistics, programming, data analytics, modeling and machine learning skills in different real-world contexts

#### Engineering Internship

June 2016 – December 2016

Global Power Products, Lawrenceville, GA

- Designed a manual power transfer switch rated to 400 Amps in accordance with ANSI (American National Standards Institute)
- Created a 3D part library from scratch to organize roughly 100 existing parts

### RESEARCH EXPERIENCE

#### Undergraduate Research Assistant: Mechatronics Engineering

April 2018 -December 2019

Dr. Kevin McFall, Kennesaw State University, Marietta, GA

- Developed an end to end machine learning solution for an autonomous robot for active object detection and path planning
- Presented at NCUR 2019, Publication with JOSFR

### TEAM & PROJECT EXPERIENCE

#### Lead Mechanical Engineer: KSU Autonomous Underwater Vehicle

August 2017 – May 2018

- Led the Engineering Design Process for 2017-2018 Competition
- Met design considerations and requirements for ROBOSUB

#### Lead Software Engineer: KSU Autonomous Underwater Vehicle

August 2016 – August 2017

- Led the Software Design Process for 2016-2017 Competition with design considerations for ROBOSUB

#### Software Team Member: KSU Autonomous Underwater Vehicle

May 2016 – August 2016

- Programmed an autonomous underwater vehicle
- Competed at San Diego SSC TRANSDEC Naval Base

#### Design Team Member: Human Powered Vehicle Competition Team

August 2014 – May 2015

- Designed, wrote technical paper, tested and documented
- Competed at University of Florida; 22/33 Eastern Conference

### LEADERSHIP/AFFILIATIONS

Trumpet Section Leader – Kennesaw State University Marching Band

August 2016 – December 2017