

Michael Nguyen

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Work Experience

Teaching Assistant Electrical and Computer Engineering Dept, Carnegie Mellon University <ul style="list-style-type: none">Lead small groups and office hours for 18100 Introduction to Electrical/Computer Engineering	Spring 2020
Research Programming Assistant CyLab, Carnegie Mellon University Pittsburgh, PA <ul style="list-style-type: none">Developed Alternate Reality systems and 3D georeferenced models under Dr. Yang Cai, using Python, GIS, Blender, and JavaScript	Aug 2020 – May 2021
Robotics Instructor Genius Hangouts Cumming, GA <ul style="list-style-type: none">Planned and instructed a class of students in mechatronics and codingProvided Coaching for 4 intermediate & 4 beginner robotics teams in local VEX IQ tournaments	Nov 2019 – May 2020
Data Science Research Intern Center for Space Research, UT Austin Austin, TX <ul style="list-style-type: none">Developed Python scripts to handle data from the ICESat-1 and ICESat-2 Satellite missions and create two dimensional and three-dimensional graphsUsed GIS tools to create maps using data from the 2000 Shuttle Radar Topography MissionPresented at MIT Undergraduate Research Conference 2020	Summer 2019

Projects

Electronics Design Researcher Central Processing Unit, Single Event Effects Prediction Cumming, GA <ul style="list-style-type: none">Investigated the possible correlation between CPU complexity and Single Event Effect (SEE's) from Ionizing Radiation in SpaceflightDetermined CPU architecture has a greater impact on vulnerability to SEE's relative to transistor geometryWon U.S. Air Force Achievement Award at Georgia Science and Engineering Fair and 1st place at the Regional Science Fair	Nov 2019 – May 2020
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Education

Carnegie Mellon University Pittsburgh, PA Bachelor of Science, Electrical and Computer Engineering Minor: Intelligent Environments	Aug 2020 – May 2023
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Relevant Coursework

Computer Science: Computer Vision, Imperative Computation, Fundamentals of Programming
EE/CompE: Digital Systems Design, Intro to Electrical and Computer Engineering
Nontechnical: Linear Algebra, Multivariable Calculus, Concepts of Math, Global Business

Leadership

Project Advisor/Teaching Assistant , Project Ignite, Carnegie Mellon University	Oct 2020
CMU Explorers (Outdoors/Climbing Club) Member , Carnegie Mellon University	Oct 2020
VEX Robotics Team Captain , South Forsyth High School	Aug 2016 – May 2020
Physics Team Captain , South Forsyth High School	Aug 2018 – May 2019

Skills

Programming Languages: C/C++, Java, Python
Robotics Technologies: Computer Vision, Machine Learning
Software: Git, MS Office, Google Colab, SolidWorks, Autodesk CAD
Manufacturing: CNC Mill, 3D printers, Soldering, Breadboard
Safety: CPR and AED (Red Cross Certified 2017)

Notable Awards

Eagle Scout: Silver, Gold and Bronze Palms	Jan 2019
VEX Robotics State Champion (2020)	Feb 2020
4 th Place Technology Division at VEX Robotics World Championship	Apr 2019
1 st Place Software Development - GA Technology Student Association	Mar 2018
1 st Place Electrical Applications - GA Technology Student Association	May 2019