

Michael Nguyen

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Work Experience

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|---|---------------------|
| 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

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| 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

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| 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

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| 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

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| 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 |