

# NGUYEN VAN BINH

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## EDUCATION

**National University of Singapore**

**Aug 2020 - Present**

**Bachelor of Engineering, Computer Engineering**

- Minor in Management
- Cumulative Average Point (CAP): 4.75/5.0
- Expected Graduation Date: May 2024
- Relevant course work: Software Engineering, Data Structures & Algorithms, Digital Design, Computer Organization, Mathematics, Accounting

## SKILLS

- Programming Languages: Python, C/C++, Java, Matlab
- Back-end: Django, Django REST Framework, Heroku, PostgreSQL
- Front-end: HTML/CSS/JavaScript, Vue.JS
- Hardware: FPGA Programming (Verilog), Raspberry Pi, Arduino
- AI/Machine Learning: TensorFlow, Keras
- Workflow: Git, GitHub, Trello

## EXPERIENCE

**National University of Singapore, Teaching Assistant**

**Aug 2021 - Dec 2021**

- Conducted classes of 30+ students in Data Structures and Algorithms (IT5003)
- Taught computer science concepts and techniques and showcased live coding in Python

**Edison Experimental Physics Laboratory, Research Assistant**

**Aug 2019 - Jun 2020**

- Collaborated with Physics teachers and Engineers to design, develop and test experimental Physics models used in national and international Physics Olympiads
- Conducted coaching sessions for students participating in national Physics Olympiads

## PROJECTS

- ActiveNUS, a web-based application promotes time management techniques and study methods using Django, Vue.JS and PostgreSQL
- Alex, a tele-operated vehicle with search and rescue functions utilizing Raspberry Pi, Arduino Uno, ROS, and Lidar
- mBot, an autonomous robot that can solve a maze, detect, and process data from the environment leveraging Arduino Uno
- FPGA Project, a sight-and-sound Entertainment system implemented with Verilog and Digilent Basys 3 Board

## AWARDS AND SCHOLARSHIP

- Champion, National AWS DeepRacer League, Dec 2019
- Bronze Medal, European Physics Olympiad, June 2019
- Second Prize in Physics, Vietnam National Physics Olympiad, Jan 2019

## EXTRA CURRICULAR ACTIVITIES

**Phan Debate Club, President**

**Aug 2017 - Aug 2018**

- Managed high school debate club with 20+ members, executed recruitment process, and organized debate competitions
- Collaborated with clubs nationwide, executed sharing sessions between organizations, and reached 1000+ followers on social media (Facebook)