

# NGUYEN TUAN DUNG

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## EDUCATION

### **National University of Singapore** **Aug 2019 – May 2023**

- Bachelor of Engineering (Hons), Major in Mechanical Engineering with Second Major in Innovation and Design.
- Robotics Specialization with focus in Robot Intelligence (Machine Learning & Artificial Intelligence)
- ASEAN Scholarship Recipient.
- Current CAP: **4.92/5**.

### **Anglo-Chinese School (Independent)** **Jan 2017 – Nov 2018**

- A\*STAR Scholarship Recipient.
- Received the International Baccalaureate (IB) Diploma – Results: **44/45**.

### **Anglo-Chinese School (Independent)** **Jan 2015 – Nov 2016**

- A\*STAR Scholarship Recipient.
- Graduated from GCE O-Level Examination with 7 distinctions – Results: **L1R5 – 10**.

## WORK EXPERIENCE

### **Co-Founder & Team Leader at MyBelle** **Aug 2020 – Present**

- MyBelle is a team of innovators and scientists from around the world which focuses on providing equal access to affordable and quality healthcare to people around the globe through social enterprise.
- Developing a digital solution to alleviate the high maternal mortality death in Nigeria.
- Grand Winner at the Fishbowl Challenge and awarded USD 25,000 in seed funds.
- Role: Team Strategy & Management, Technical Development (UI/UX & Software).

### **Business Consultant at Refoveo** **Dec 2020 – Feb 2021**

- Perform Market Research & Analysis to produce business intelligence for clients.
- Focus: Pharmaceutical cold chain, commercial and industrial refrigeration, reefer vehicles & advanced materials.

### **Research Assistant in Biomedical Engineering at National University of Singapore** **Jun 2020 – Dec 2020**

Topic of research: Nasopharyngeal and Oropharyngeal Swab.

- Designed new self-administered swab for COVID-19 testing.
- Adapted kinematic chain concepts into developable surfaces to create cooperative and compliant mechanism.
- Scientific journal published with Frontiers Publisher, <https://doi.org/10.3389/frobt.2021.612959>.

### **Tuition Teacher at MathVision Tuition Center** **Feb 2019 – May 2019**

- Taught Mathematics for secondary and pre-tertiary students daily.
- Created practice questions to improve students' skill set.

### **Mathematics Trainer at Anglo-Chinese School (Independent)** **Dec 2018 – May 2019**

- Compiled a mathematics book (200 pages) used for lessons.
- Taught and mentored members of the school's Olympiads mathematics team.
- Started a YouTube channel and updated it with videos of mathematics lessons twice weekly.

## HONORS AND ACHIEVEMENTS

### **National University of Singapore** **Aug 2019 - Present**

#### **2<sup>nd</sup> Runners up at Hitachi FinTech Challenge 2019**

- Came up with FinTech solution to improve liquidity and cashflow for Small-Medium Enterprises.
- Awarded S\$1000 cash prize.

### **Anglo-Chinese School (Independent)** **2015 – 2018**

- Distinction award at Singapore International Mathematics Challenge 2018 – rank in top 12 out of over 50 teams from over 30 countries.

- Category C 3rd Prize in Singapore Mathematical Society Essay Competition 2017 – written an essay on Big Data and its application.
- Represented School at SUTD Electric Vehicle Challenge 2017 – constructed and raced an electric kart.
- Division Finalist at World VEX Robotics Competition 2017 – ranked 3<sup>rd</sup> out of 100 teams during qualification round.
- Tournament Champion at Singapore VEX Robotics Competition – 2015, 2017 and 2018.

## CO-CURRICULAR & VOLUNTEER EXPERIENCES

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### *National University of Singapore*

#### **Operation Orion 2020 | Heads of Funds and Marketing**

**Jun 2020 – Present**

- Developed Operation Orion's network and connected with external groups and organizations.
- Sourced for sponsorship and donations.
- Secured more than SGD 5,000 so far to finance volunteer activities.
- Managed finance (funding allocation, monitor cashflow, balance sheet, etc).

#### **Robomaster Robotics Team | Team Leader**

**Oct 2019 – Jun 2020**

- Overall in-charge of development for "Engineer" sub-team, specialized in Mechanical Design & Fabrication.
- Develop robots to participate in Robomaster competition in Shenzhen, China.

#### **External Relation Cell of NUS Engin Club | Treasurer & Secretary**

**Oct 2019 – May 2020**

- Take minutes and provide feedback for club's activity and events.
- Managing the Finance of the Cell.

#### **Operation Orion 2019 | Program & Finance Committee**

**Sep 2019 – Mar 2020**

- Oversea volunteer program in Vietnam.
- Built two houses and one bridge for a local village while also conducted lesson at a local Primary School.
- Created teaching program for local students on Science and English.
- Organized Fundraising event and manage organization's finance.

### *Anglo-Chinese School (Independent)*

#### **Think Singapore 2018 | Pioneer, Organizer**

**Jan 2018 – Jun 2018**

- A student-initiated event to inform secondary school students and parents in Vietnam on scholarship opportunities to pursue an education in Singapore.
- Attracted about 300 students and parents, and still giving out information daily through its Facebook page.
- In charge of publicity work including designing logo/ poster, writing promotion article, etc.

#### **Mathematics Competition Team | Vice President**

**Jan 2015 – Sep 2018**

- Mentored and prepared younger members for competitions.
- Set questions, mark papers, and organize prize ceremony for the school annual mathematics competition.
- Received certificate of merit and certificate of distinction for contributions to the club.

#### **Robotics Club | Vice President**

**Jan 2015 – Sep 2018**

- Mentor younger members in mechanical designing and game strategy.
- Plan and facilitate activities such as: New member selection, Internal scrimmage matches, Club's dinner, etc.
- Design, build, program, and drive robots for competitions (specialized in design and build).
- Received certificate of merit and certificate of distinction for contributions to the club.

## SKILLS & PROFICIENCIES

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- **Languages:** English & Vietnamese. Beginner proficiency in French.
- **CAD Software:** Familiar with SolidWorks, Autodesk Inventor and Fusion 360.
- **Programming Language:** Python, basic C & C ++, Excel VBA.
- **UI/UX Design & Video Editing:** Figma, Adobe Premier Pro.
- **Administrative Software:** Microsoft Words, Excel, PowerPoint, etc.
- **Other Interest:** Playing and watching sports, especially football. Playing Guitar. Cooking and baking.