

# Vikram Gopinath

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## EDUCATION

<b>National University of Singapore</b>	Aug 15 – Present
<ul style="list-style-type: none"><li>Pursuing a Bachelor of Engineering (Honours)</li><li>Specializing in Mechanical Engineering</li><li>Part of the Design-Centric Programme</li><li>NUSS-NUS Mentorship Programme</li><li>Participated in the NUS School of Computing Orbital Programme</li><li>Expected Date of Graduation: May 2019</li></ul>	Oct 16 - Present Jun 16 – Aug 16
<b>Singapore Civil Defence Academy</b>	Jul 13 – Feb 14
<ul style="list-style-type: none"><li>Advanced Diploma in Emergency Response and Incident Management</li><li>Graduated with a Lieutenant Rank</li></ul>	

## WORK EXPERIENCE

<b>IGMould</b>	Dec 16
<i>Intern/Apprentice</i>	
<ul style="list-style-type: none"><li>Practical study/training of the Workshop and its machines under the mentorship of Mr. Sonichen, Managing Director of IGMould.</li><li>I was tasked with manually converting simple drawings into machine codes for both machines by the end of my training. While the CNC machines were my main focus, I learned much about various metals and their chemistries along with how to use several other simpler engineering tools and machines such as the grinder and lathe.</li></ul>	
<b>Ministry of Home Affairs, Singapore Civil Defence Force</b>	Feb 14 – Mar 15
<i>Platoon Commander, Alexandra Fire Station</i>	
<ul style="list-style-type: none"><li>Led a team of 24 men through various exercises and turn-outs including the National Day 2014 Standby and the Singapore 2014 Grand Prix Standby</li><li>Received the Service Excellence Award for “outstanding contribution and commitment to service excellence”</li></ul>	Jan 15

## ORGANISATIONAL AND COMMITTEE EXPERIENCE / EXTRACURRICULARS

<b>Frogworks Group (Design-Centric Programme)</b>	Jan 17 - Present
<i>Electric Autogyro Project</i>	
<ul style="list-style-type: none"><li>Embarked on a project with the NUS Faculty of Engineering’s Design-Centric Programme to build the world’s first ultralight electric autogyro. The project is led by Professor Martin Henz from the School of Computing and Mr. Brian Teo from the Faculty of Engineering.</li></ul>	
<b>National University of Singapore D’Makers Club (Design-Centric Programme)</b>	Jan 17 – Present
<i>Member</i>	
<ul style="list-style-type: none"><li>One of five members who plan and execute workshops for NUS Engineering students. Workshops include 3D printing, laser cutting and Arduino (Robotics).</li></ul>	
<b>National University of Singapore Engineering Club</b>	Aug 15 – Aug 16
<i>Publications Committee</i>	
<ul style="list-style-type: none"><li>Contributed to the publication of the Fuse 2015 Magazine</li></ul>	
<b>National University of Singapore Indian Cultural Society</b>	Aug 15 - Present
<i>Committee Member</i>	
<ul style="list-style-type: none"><li>Organized fund raising activities and planned the Indian Cultural Bazaar for NUS</li><li>Took part in various community involvement projects in 2015 including food distribution to low income families.</li></ul>	Jan 16 Aug 15 - Present

**Sheares Hall, National University of Singapore**

Aug 15 – Present

*Fundraising Committee, Overseas Community Service Project*

- Organized fundraisers to allow his team to do community service in Chiang Mai for 15 days

*Member, Touch Rugby**Member, Photography and Media Society**Member, Tchoukball**Member, Convening**Member, Sheares Beats (DJ Club)***Anglo-Chinese Junior College Canoe and Dragon Boat Team**

Jan 11 – Aug 12

*Team Member*

- Received the Certificate of Merit for Canoeing Oct 12
- National Interschool Canoe Competition K4 Finalist 500m – 4<sup>th</sup>, 1000m – 5<sup>th</sup> May 12
- Singapore Canoe Marathon Men's 18km K2 – 5<sup>th</sup> Place Medalist Overall Dec 11
- Singapore Dragon Boat Interschool Race Overall Champions 500m – 1<sup>st</sup>, 1000m – 2<sup>nd</sup> Jun 11

**USEFUL SKILLS AND CERTIFICATIONS**

- Programming Languages – C, HTML + CSS (Web Design), Python
- CAD – Autodesk Fusion 360, SOLIDWORKS 2015, SOLIDWORKS 2016
- Emergency Response – First Aid, American Red Cross (Lifeguard), CPR + AED
- Adobe Photoshop CS6
- Other Languages Spoken
  - Bahasa Indonesia (Fluent)
  - Malay (Fluent)
  - Tamil (Conversational)
  - German (Beginner)
- Singapore Workforce Skills Qualifications
  - PI-CP-105E-1 Respond to Fire and Hazmat Emergency
  - PI-PRO-325E-1 Implement Incident Management Process

**ACADEMIC TRANSCRIPT**

Year	Level	Course Description	Grades
Aug – Nov 2015	Year 1/Semester 1	Programming Methodology	Satisfactory
		Statics and Mechanics of Materials	Satisfactory
		Quantitative Reasoning	B+
		Engineering Mathematics 1	B+
		Physics IE	Satisfactory
Jan – May 2016	Year 1/Semester 2	Operations Management	B+
		Electrical Engineering	B-
		Communicating Engineering	A-
		Critical Thinking & Writing	A-
		Engineering Mathematics 2	Satisfactory
		Engineering Visualization & Modeling	B+
Aug – Nov 2016	Year 2/Semester 1	Personal and Interpersonal Effectiveness	Satisfactory
		Independent Work	Satisfactory
		Case Studies in Engineering	A-
		Mechanics of Materials 1	C+
		Engineering Thermodynamics	B
		Fluid Mechanics 1	B-
		Principles of Mechanical Engineering Materials	B+
		Manufacturing Processes	B
Jan – May 2017	Year 2/Semester 2	DCP Project	In-progress
		German 1	In-progress
		Fundamentals of Mechanical Design	In-progress
		Mechanics of Materials 2	In-progress
		Fluid Mechanics 2	In-progress
		Sensors & Actuators	In-progress