

# RESUME FOR MUHAMAD HAIKAL BIN MOHAMED

M: 98488216 | E: [muhamedhaikal6@gmail.com](mailto:muhamedhaikal6@gmail.com) | LI: [www.linkedin.com/in/muhamad-haikal-bin-mohamed](https://www.linkedin.com/in/muhamad-haikal-bin-mohamed) | Portfolio: [www.HappyHaikal.com](http://www.HappyHaikal.com)

## EDUCATION

### Singapore University of Technology and Design (SUTD)

Undergraduate [Expected to graduate in 2027]

Singapore  
Sep 23 - Present

- Bachelor of Engineering (BEng), Major in Engineering Product Development (Mechanical Engineering)
- SUTD Global Distinguished Scholarship holder

### Yonsei University

Summer Programme

South Korea  
Jun 24 - Aug 24

- Six-week school-sponsored program
- Enrolled in Korean language and Arts modules

### Temasek Polytechnic

Diploma in Aerospace Engineering

Singapore  
Apr 18 - Apr 21

- cGPA of 4 out of 4
- Achieved 11 Distinctions and 16 As
- Received ST Engineering Aerospace Course Silver Medal, Freshmen and Junior Director's List Award

### Tanjong Katong Secondary School

GCE O' Level Certificate

Singapore  
Jan 14 - Dec 17

- Distinction in Physics, Chemistry, Design and Technology, Elementary Mathematics

## WORK EXPERIENCE

### Singapore University of Technology and Design (SUTD)

Apr 24 - Jul 24

#### Airlab, research lab in SUTD, Part-time Research Technician (returning employee)

- Collaborated and lead a team of 2 to design and modeled force sensing test rig for high pressure water jet propulsion using SolidWorks, various electrical components
- Integrated high-pressure load sensors with Arduino IDE, C++ & Python to acquire and visualize sensor data

### Singapore University of Technology and Design (SUTD)

Oct 19 - Mar 20

#### Airlab, research lab in SUTD, Intern/Full-time Research Technician

- Developed and refined drone component designs in SolidWorks to improve structural integrity and performance
- Engineered experimental test setups and implemented data acquisition systems using Arduino IDE and Processing for real-time monitoring and analysis
- Collaborated with a team of PhD researchers and research assistants, met project deadlines

## ACADEMIC AWARDS

2023, SUTD Global Distinguished Scholarship

2023, SUTD-Prima Scholarship

2020, Junior Director's List Award

2019, Freshman Director's List Award

2016, Best in Design and Technology

## PROJECTS

- Refer to website: [www.HappyHaikal.com](http://www.HappyHaikal.com)

## CO-CURRICULAR ACTIVITIES

Feb 2023 - present, Member of University Ambassador Club (SUTD)

Feb 2024 - Feb 2025, Events director of SUTD Muslim Society

Apr 2019 - Oct 2019, Class Chairman for Temasek Polytechnic Form Class

May 2016 - May 2017, Secretary of Student Council Executive Committee

## ADDITIONAL INFORMATION

- Technical skills: SolidWorks, Fusion 360, Python, C++, 3D printing, soldering, Arduino, MS Office suite
- Certified SolidWorks Associate (CSWA) – Dassault Systèmes | [2024]
- Fluent in English and Malay