



ZARIFAH IRDINA BINTI SULONG

Bachelor of Engineering (Aerospace) (Honours)

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EDUCATION

Bachelor of Engineering (Aerospace) (Honours)

International Islamic University Malaysia (IIUM), Gombak Campus | 2019 – 2023
CGPA: 3.72

Foundation in Engineering & Computer Science

Centre for Foundation Studies (CFSIIUM), Gombang Campus | 2018 – 2019
CGPA: 3.86

Sijil Pelajaran Malaysia (SPM)

Sekolah Menengah Kebangsaan Agama Miri, Sarawak | 2013 – 2017
10A 1B

WORKING EXPERIENCE

Sepang Aircraft Engineering Sdn. Bhd.

Internship Trainee (Technical Services Department) | 07/2022 – 09/2022

- Involved in various tasks of Technical Services Engineer.
Eg: Acknowledge, review, and evaluate technical request, prepare Engineering Order (EO), perform Airworthiness Directive (AD) Biweekly review, etc.
- Involved in preparing step-by-step procedures of landing gears transfer.

UNIVERSITY PROJECTS INVOLVEMENTS

Stress Analysis of Carbon Fiber Composite Spar Subjected to Multiple Loadings (Final Year Project)

- Modelled a shell element I-beam spar made of Carbon/Epoxy material in LS-DYNA software.
- Analyzed the structural performance of the modelled spar when subjected to multiple loadings (lift during cruise, self-weight, lift due to banked turn).

Banana Trunk Shredder Machine Project (Integrated Design Project)

- Designed a machine to dispose the banana trunk waste using SOLIDWORKS software.
- Validated the function of the mechanism using 1:4 prototype.

Conceptual Design of F16C Fighting Falcon (Aerospace Vehicle Design)

- Analyzed a comprehensive conceptual design of an aircraft, includes initial sizing of an aircraft, weight, drag and cost estimation.
- Designed the aircraft based on the initial sizing obtained through conceptual design calculation using CATIA V5.

Numerical and ANSYS Analysis - Truss and Plane Stress (Finite Element Analysis)

- Obtained the deformation and stress of the structures through numerical calculation.
- Validate the findings compared to the results obtained using ANSYS software.

Automatic Door System Project

- Modelled the automatic door system and coded in Arduino software.
- Performed the simulation using servo motors and Arduino UNO.

Glider Project - NACA 24112 and XFOIL (Aerodynamics 1)

- Obtained the aerodynamics coefficients for the airfoil type using XFOIL software.
- Modelled and observed the performance of a glider.

LANGUAGE PROFICIENCY

English	:	Intermediate in both speaking and writing.
Malay	:	Native language.
Sign Language	:	Beginner.

COMPUTER SKILLS

Microsoft Office (Word, Excel, PowerPoint), LS DYNA, SOLIDWORKS, ANSYS, MATLAB, XFOIL

ACHIEVEMENTS

Dean's List Award

- 6 semesters

CO-CURRICULUM INVOLVEMENTS

Committee

- Assistant Secretary General, Engineering Students' Society (ENGINEIUS XXVII)
– Session 2020/2021
- Secretary Dakwah & Training Bureau, Engineering Students' Society (ENGINEIUS XXVI)
– Session 2019/2020
- Vice President 2, Engineering Students' Society (ENGINEIUS)
– Session 2018/2019

Participation

Year 2022

- **Persuade with Power Workshop** – Organized by Office of Deputy Dean, Student Development and Community Engagement, Kulliyah of Engineering, IIUM
 - Learnt the tips, techniques, and tricks to be a persuasive speaker.
 - Presented a speech related to Final Year Project in the speech showcase.

Year 2020

- **Aviation Training** - Organized by Mechanical Engineering Students' Association IIUM in conjunction with AITECQ Engineering
 - Industrial learning and better exposure of the real aviation industry.
- **Sign Language Workshop** - Organized by IIUM Ibn Ummi Maktum Club
 - Learnt basic sign language (Bahasa Isyarat Malaysia) such as alphabets, greetings, colors, simple conversations, and many more with a given module for reference.

Year 2019

- **Rocket Development Workshop** – Organized by Mechanical Engineering Students' Association IIUM & Kedah Rocketry Group
 - Learnt on how 3D printed rocket being developed.

REFERENCE

Asst. Prof. Dr. Wan Luqman Hakim
Final Year Project Supervisor
Email: wanluqmanhakim@iium.edu.my
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