



# NUR ALYA IRDINA BINTI ZAMAKHSHARI

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## PROFESSIONAL SUMMARY

A highly skilled aerospace engineering graduate with strong technical and functional skills. Expertise in problem-solving, cross-functional teamwork, and utilization of advanced software for data analysis and optimization. Ready to apply academic knowledge and practical abilities to drive innovation in aerospace fields and to positively contribute back to society.

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## EDUCATION

**Universiti Putra Malaysia** **9/2019 – 10/2023**  
**Bachelor of Aerospace Engineering with Honours**  
CGPA: 3.511

**Universiti Putra Malaysia** **6/2018 – 6/2019**  
**Foundation of Agriculture Science**  
CGPA: 3.843  
Malaysian University English Test (MUET): Band 4

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## WORK EXPERIENCE

**Protégé RTW – CNS Operation Coordinator** **10/2023 – Present**  
**Advanced Air Traffic Systems (M) Sdn Bhd (AAT)**

- Managed all other administrative duties assigned and event planning.
- Maintained the CNS central filing system, general database and archive.
- Ensured CNS Department policies and best practice are adhered to, including health and safety, equal opportunities and customer care, at all times.
- Undertake general administrative duties within the operation department.

**Internship** **7/2022 – 10/2022**  
**FAAS Engineering & Consultancy**

- Worked together with the staff in arranging the structure content for CAAM documents, ensuring project compliance and submission readiness.
- Assisted the staff in executing hands-on tasks which effectively contributing to operational efficiency.
- Arranging the content for new aircraft design manual.

**Volunteer** **8/2021 – 9/2021**  
**Malaysia Support Vaccine Volunteers (MyVac)**

- Assisted people during the vaccination process, ensuring a smooth process.
  - Recorded and organized vaccine recipient data efficiently.
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## PROJECT EXPERIENCE

### **The Design of Unmanned Aerial Vehicle for Cleaning Cobweb from High Ceilings**

Final-Year Project

- Designed a drone using Solidworks CAD software for indoor application, which is used to clean cobwebs from high ceilings.
- Fabricated the drone using a 3D printer and hands-on skills.
- Conducted the flight-testing, analyzed the failure that occurred during the flight testing and performed an iteration process on the drone design.
- Analyzed and documented test results and provided recommendations for design optimization and performance enhancement.

### **Unmanned Obstacle Avoiding Vehicle Miniature**

- Designed and created unmanned obstacle avoiding vehicle miniature using ARDUINO UNO and ultrasonic sensor HC-SR04.
- The miniature was tested using LIDAR able to detect the obstacles within 1 meter radius.

### **DBKL-Miros-Bloomberg Philanthropies Initiatives for Global (KL) Road Safety**

Enumerator

- Data collection of road safety around Klang Valley area.
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### **EXTRA CURRICULAR ACTIVITIES**

#### **EXCHANGE STUDENT FOR EXCHANGE PROGRAM “SU-UPM INTERCULTURAL CO-LEARNING FOR LANGUAGE PROFICIENCY BY TANDEM LEARNING PROGRAM AND FOR RESOLUTION OF SOCIAL CHALLENGES” PART I AND PART II**

- Participated in culture-sharing sessions about Malaysia and Japan and engaged in Japanese and English language learning sessions.

#### **VOLUNTEER FOR PROGRAM AERO VOLUNTEER**

- Volunteered at G2G Animal Garden by actively assisting the staff in the care and welfare of animals.

#### **TECHNICAL COMMITTEE FOR THE ULTIMATE AERO TALK SESSION**

- Managed the program and ensured it ran smoothly according to the schedule.
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### **SKILLS**

- **Technical:** CATIA, Solidworks, MATLAB, ANSYS, Python, Arduino, 3D Ultimaker Cura, Microsoft Excel, Microsoft Office.
  - **Functional:** Leadership, Organizational, Teamwork, Adaptability, Project Management, Problem Solving.
  - **Languages:** Malay (native speaker) and English (highly proficient).
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### **CERTIFICATIONS**

#### **Deans' List Award**

Achieved two times on Semester 4 and Semester 7

**2020/2021 & 2022/3023**

#### **Professional Certificate in Advance Industrial Internet of Things (IIOT)**

HadiVenture - Malaysia Industry Forward Association

**2023**

#### **Training on An Introduction to Safety Management System in Aviation Industry**

FAAS Engineering & Consultancy

**2022**

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### **REFERENCES**

Nooratikah Ismail

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