

# ASHISH JOHN KALATHIL

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## PERSONAL STATEMENT

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A highly motivated, friendly and hard-working post-graduate engineer with a strong affinity for cockpit design, aircraft systems and engineering design. Fundamentally adept with digital CAD tools for part modelling, surface modelling, and integrated assembly design. Aspiring to discover the challenges that exist in modern civilian or military aerospace vehicles. seeking a position that provides the opportunity to build on my key skills and gain valuable experience.

## EDUCATION

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### **MSc in Aerospace Vehicle Design (Aircraft Design) – Cranfield University, United Kingdom (2020 – 2021)**

- Relevant coursework: Design of Airframe Systems, Design and Analysis of Composite Structures, Aircraft Aerodynamics, Fatigue, Fracture Mechanics and Damage Tolerance, Reliability, Safety Assessment and Certification, Aircraft Stability and Control, Integrated Vehicle Health Management and Computer-Aided Design (CAD).

### **BTech in Aerospace Engineering – Karunya University, India (2015 – 2019)**

- Relevant coursework: Aircraft Performance, Aircraft Stability & Control, Aircraft Instrumentation, Aircraft Propulsion, Aerodynamics, Fluid Mechanics, Structural Mechanics, Engineering Mechanics, Thermodynamics, Thermal Engineering, Avionics, Gas Dynamics, Aircraft Structures, Advanced Space Dynamics, Rocket Propulsion, Cryogenic Propulsion, Computational Fluid Dynamics, Wind Tunnel Techniques, Navigation Control & Guidance, Unmanned Aerial Vehicles, Finite Element Analysis and Advertising

## SKILLS

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- Strong understanding of aircraft design and aerodynamics, including principles of flight, propulsion systems, and airframe structures.
- Proficient in the use of industry-standard software such as CATIA and ANSYS for aircraft design and analysis.
- Hands-on experience with aircraft wheels, brakes, and other mechanical systems, including maintenance, repair, and overhaul.
- Excellent problem-solving and critical thinking skills, with the ability to develop creative solutions to complex engineering problems.
- Ability to work independently or as part of a team in a fast-paced, dynamic environment.

## EMPLOYMENT AND VOLUNTEERING HISTORY

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### **Honeywell Aerospace – Aircraft Wheel/Brake Technician (April 2022 – December 2022)**

- Performed routine and unscheduled maintenance, repair, and overhaul of aircraft wheels and brakes, including the removal and installation of components in accordance with CMM (Component Maintenance Manual)
- Conducted inspections and tests of wheels and brakes to ensure proper operation and compliance with regulations and standards.

- Worked closely with other maintenance technicians, engineers, and customer representatives to resolve technical issues and ensure timely completion of maintenance tasks.
- Meeting customer requirements following CAA, FAA, and EASA regulations.
- Supporting the production planning process by inspecting the components for damage before issuing them to the work floor promptly
- Maintaining the store's stock levels with meticulous attention to detail.
- Ensuring that the planned in-house maintenance activity adheres to both regulatory requirements and Honeywell's industry-leading safety and technical standards
- Quarantine the damaged items until the discrepancy is resolved.
- Ensure that unserviceable parts are returned promptly following company procedures.
- Control the issue and return of components using SAP for planned maintenance activity to support operations.

#### **McDonald's – Crew Member (April 2021 – December 2021)**

- Responsibilities included customer greeting, kiosk coaching, order assembly and cash handling.
- Developed skills for working within a team and as an individual
- Provided excellent customer service in a high-pressure environment in a multi-million-pound restaurant
- Demonstrated exemplary work ethic as part of a large, diverse team

#### **Ashima Printers, India – Associate Supervisor (January 2017 – February 2020)**

- Slashed payroll/benefits administration costs 30% by negotiating pricing and fees while ensuring the continuation and enhancements of services
- Negotiated contracts with vendors
- Organizing the daily work-flow based on the work priorities
- Allocating the work among the members
- Monitoring and ensuring the team is completing the daily assigned tasks
- Timely guidance on the work process

#### **Ashima Printers, India – Associate Supervisor (Part time) (March 2015 – February 2017)**

#### **Karunya Institute of Technology & Sciences – Student Volunteer (2015 – 2016)**

- Participation in the Swacch Bharat mission under the Government of India to clean up the environment and tree plantation. Various sanitation and hand hygiene campaigns.

#### **Karunya Institute of Technology & Sciences – Event Coordinator (2017 -2018)**

- Actively involved in organizing various technical and non-technical events on-campus.

## **PROJECTS**

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- **Individual Research Project:** The conceptual design methodology of urban air mobility aimed to meet the challenges of accessible and affordable urban air transportation of the future.
- **Group Design Project:** Design a windowless cockpit based on an ergonomic analysis and integration of the synthetic vision system and the ejection seat in a low-boom low-drag supersonic demonstrator aircraft.

## CERTIFICATIONS

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- Professional/Technical Training: CATIA certification.

## LANGUAGES

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- English
- Malayalam
- Tamil

## INTERESTS & EXTRACURRICULAR ACTIVITIES

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- IT Skills: CATIA, SOLIDWORKS, Adobe Photoshop, Adobe Lightroom, Davinci Resolve 16, MS-Word, MS-Excel, MS-PowerPoint, SAP
- Individual Interests: Photography & Videography, Playing Drums & percussions, Music production, Reading & Writing, Health & Fitness.
- Several awards in the school level competition for Drums and Percussion.