



## Joshwin Emmanuel Johnson

📞 Phone number: (+49) 15510640182 ✉ Email address: [joshwinejohnson@gmail.com](mailto:joshwinejohnson@gmail.com)

🌐 LinkedIn: <https://www.linkedin.com/in/joshwin-emmanuel/>

📍 Home: Schulstraße 8A, 91074 Herzogenaurach (Germany)

### WORK EXPERIENCE

#### Proprietor

*JEJ Driving Institute, Malappuram, India* [ 02/2022 – Current ]

#### Responsibilities:

1. Providing vehicle-related consultancy services
2. Managing operations and accounts

#### Freelance CAD Designer

*Cavli Wireless, Kochi, India* [ 08/2021 – 03/2022 ]

**Projects:** G-SERIES(GNSS MODULE), C-SERIES (LPWAN MODULES), P32 SERIES

#### Responsibilities:

1. Developing 3D models for PCB footprints using Solidworks, Fusion360, and Blender.
2. Providing Step files, Blend file,s and detailed drawings

**Tools:** SolidWorks, Blender

#### Proprietor

*Vyasa E-Hub, Malappuram, India (IT enabled Services)* [ 03/2019 – Current ]

#### Responsibilities:

1. Managing staff, accounting, customer consultations, and equipment maintenance

#### Team Lead and Designer

*Design Altar(Web Service), India* [ 12/2018 – Current ]

**Website:** [https://bit.ly/Design\\_Altar](https://bit.ly/Design_Altar)

**Responsibilities:** Managing, customer consultations, Programming, CAD and simulation, Hardware development, and Web development(front end).

**Tools:** Inventor 3D, Fusion 360, Ansys, SolidWorks, Blender, C++, Arduino, C#, CNC Programming, 3D printing, CNC Milling, HTML, CSS, Javascript.

### EDUCATION AND TRAINING

#### MSc Electromobility-ACES

*Friedrich-Alexander-Universität Erlangen-Nürnberg* [ 10/2022 – Current ]

#### Diploma in Digital Fabrication

*Fab Academy / Massachusetts Institute of Technology CBA / Super Fab Lab Kochi* [ 01/2022 – 06/2022 ]

#### B - Tech Mechanical Engineering

*APJ Abdul Kalam Technological University / Jyothi Engineering College (NAAC & NBA accredited)* [ 05/2017 – 06/2021 ]

#### Post Graduate Diploma Industrial Automation

*SMEClabs (TÜV Rheinland and NSDC accredited)*

### LANGUAGE SKILLS

#### Other language(s):

##### English

LISTENING C1 READING C1 WRITING C1

SPOKEN PRODUCTION C1 SPOKEN INTERACTION C1

##### German

LISTENING A2 READING A2 WRITING A2

SPOKEN PRODUCTION A2 SPOKEN INTERACTION A2

## DIGITAL SKILLS

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### Programming

HTML, JS, CSS Programming / C, C++, C# general knowledge / Python

### Software

Blender / Photoshop / Unity 3D

### Technical

Autodesk Inventor / Fusion360 / AutoCAD / Solidworks

### Manufacturing Machinery

Additive manufacturing (FDM, SLA) / CNC (3 axis mill, lathe, waterjet, laser, Wire EDM, Zund)

## PROJECTS

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### NISCHAL( 5 Axis Photography CNC)

**Institution:** Super Fab Lab Kochi India

**Objectives:** To make a CNC for filming a product within 2 weeks.

**Duration:** 2 weeks

**Responsibility:** Mechanical Designing

**Tools:** Autodesk Inventor, Fusion360, CNC milling, Arduino

### Mechanical property analysis of RSW lap joint of 15CDV6 specimen

**Institution:** Indian Space Research Organisation (ISRO)

**Objectives:** To analyze the mechanical property of resistance spot welded lap joints through an experimental method and FEM tool.

**Duration:** 8 months

**Responsibility:** Project management and team leader

**Tools:** MAC Apex 3D, Simufact Weld

### Gyroscopic stabilization for paramedical stretchers in ambulance

**Objectives:** To isolate subjects from the vehicle's vibrations using the theory of gyroscopes.

**Duration:** 4 months

**Responsibilities:** Leader, 3D Designer

**Tools:** Solid works, Arduino, 3D printing

## HONOURS AND AWARDS

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### WorldSkills Russia (International Contest).

WorldSkills Russia

**Nominated** for **representing India** in Online Competition by WorldSkills Russia.

### India Skills Kerala 2020 (State Level Contest)

Kerala State Gov, Kerala Academy for Skills Excellence and ITI

**State award** for winning **First prize** for **Mechanical Engineering CAD**

### Rural India Business Conclave Agritech Hackathon.

ICAR-Central Plantation Crops Research Institute

Selected to **top 5** at Rural India Business Conclave Agritech Hackathon.

### India Innovation Challenge Design Contest 2019 (National Contest).

DST, Texas Instruments, and Indian Government

Qualified as the **100 Semi-final participants from 1800+ teams** at Indian Innovation Challenge Design Contest 2019