

AHILARAJAN JAYASANKAR

MECHATRONICS ENGINEER



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OBJECTIVE

A dynamic and versatile professional with a solid educational foundation and international experience in mechatronics and product development. Proven leadership skills, adept at guiding teams to achieve project goals, and driven by a passion for innovation in challenging environments. Committed to fostering organizational growth through technical expertise, strategic vision, and a hands-on approach to developing impactful products.

EXPERIENCE

18/3/2024 - Present

Freelancer - Mechatronics Engineer

- Project Management.
- Project Planning & Installation planning.
- Performing DFMEA (Design Failure Mode & Effect Analysis)
- ABB & NACHI Robot programming.
- Documentation & Design Approval Plan preparation.
- Electrical Panel Wiring & Control Systems.
- Shopfloor Management.
- Solidworks and Solidedge for conceptual and Mechanical designs.
- Robotics Trainer at TamilNadu Skill Development Centre (TAHDCO).
- IoT Product Development for Solid Waste Management

07/08/2023 - 15/03/2024

Project Officer, Indian Institute of Technology, Madras (IIT-M)

- Part of **Engineering team**.
- Field Installation of Air Quality monitoring devices across the hotspot of the city
- Attending any service related issues to the sensor module.
- Collecting Data and analyzing the pollutant content in the Air
- Making report and managing the team of technicians and engineers.
- Interacting with mechanical fabricators and getting required part manufactured.
- Engaging with stakeholder, various government authorities and pitching the product to commercialize it.
- **Solidworks** is the prime software used for Mechanical designs

25/04/2022 - 03/08/2023

Assistant Manager, Waycool Foods and Products, India

- Part of **Agriculture Product Engineering team**.
- Work on ideation stage, hands on **prototyping**.
- Part of both mechanical and electronics team for prototyping various ideas.
- **AutoDesk Fusion 360** for mechanical design.
- Procurement and design mechanical parts required for various projects like Automated fruit Harvester.
- Identifying gaps and problem statement in Indian Agriculture Ecosystem.

EDUCATION

Masters [Mechatronics]

Tomsk Polytechnic
University, Russia
2015 - 2017
CGPA - 4.54/5

B. Tech [Mechanical Engineering]

Manipal University Jaipur
2012 - 2015
CGPA - 6.74/10

Diploma [Mechatronics]

Nettur Technical Training
Foundation (NTTF)
2009 - 2012
CGPA - 75%

Overall Experience: 5+ years

KEY SKILLS

- LEADERSHIP
- DESIGN THINKING
- PRODUCT DEVELOPMENT
- EMBEDDED SYSTEM
- IOT
- MECHANICAL DESIGNS
- DOCUMENTATION
- PROJECT MANAGEMENT
- PCB DESIGNING
- CIRCUIT DESIGNING
- COMPONENT SELECTION
- VENDOR MANAGEMENT
- COMPONENT SOURCING
- PRODUCT LIFE CYCLE

16/08/2021 - 22/04/2022

IoT and Sales Manager, BuildTrack Smart Automation, India

- Part of **IoT installation team** across TamilNadu and Kerala.
- Looked into penetrate with IoT based smart automation product in TamilNadu Market.
- Looked into lead generation and scheduled meeting with various channels like architects,interior designers,electrical consultant to pitch in smart automation product.
- **Closed a deal** worth in INR 4 Lakhs(approx.) within a span of 4 months after joining the company.
- Assisting on routing RS485 during construction stage,involved in installation of various **Nodes,Gateway** and **Mobile App** for both wired and wireless home automation solution.

22/11/2017 - 31/10/2018

Project Engineer, Indian Institute of Technology,Bombay (IIT-B)

- Design and Develop Hardware for IoT based electrophysiological sensors.
- Optimize PCB hardware layout and component selection and procurement of electronic components.
- **OpenBCI** and **RedBear Duo** referred for design and development.
- **EaglePCB** for circuit designing.
- Supervising entire project dealing with vendors and juniors for Mobile application development.

01/07/2016 - 30/06/2017

Engineer, Tomsk Polytechnic University,Russia

- Design and development of electronic embedded system for Robotic medical X-Ray machine.
- Hardware and Mechanical design integration.
- PCB Fabrication and Control panel development for **XG501** and **XG510**.
- Engineer with workload of 40%.

PERSONAL INFORMATION

Name	:	Ahilarajan J
Father's Name	:	Jayasankar M
Nationality	:	Indian
Languages	:	English, Hindi, Russian, Tamil

- MARKET ANALYSIS
- TEAM MANAGEMENT
- TEAM BUILDING
- STAKEHOLDER ENGAGEMENT
- PROJECT PLANNING
- BUDGETING
- TIME MANAGEMENT

HANDS-ON:

- STM32
- PLC-SIEMENS
- RASPBERRY PI
- INDUSTRIAL SENSORS
- ESP32/ARDUINO