

DEVADATHAN M

MECHANICAL ENGINEER

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PROFESSIONAL SUMMARY

Mechanical Engineering student with 2+ years of hands-on experience in CAD design, prototyping, and precision fabrication. Finalist in national engineering competitions with a strong record of leading projects and solving real-world problems. Known for innovative thinking, effective teamwork, and results-driven execution. Passionate about sustainable design and eager to contribute to a forward-thinking engineering team.

KEY ACHIEVEMENTS

- National Finalist—Go-Kart Design Challenge: Led structural design and 3D CAD modeling using Fusion 360, improving weight distribution by 12%.
- Designed and prototyped a cardamom cleaning machine using Fusion 360 and in-house fabrication tools, reducing water usage by nearly 40%; tested by local farmers.
- Improved EV energy layout efficiency by 15% during SEVC competition by redesigning battery and wiring configuration.
- Successfully coordinated logistics and tech support for Smart India Hackathon finals, working with over 10 participating teams.

EDUCATION

- **B.Tech in Mechanical Engineering**

Amal Jyothi College of Engineering and Technology, Kerala

Expected Graduation: 2025

- **Diploma in Mechanical Engineering**

Government Government Polytechnic College Kottayam

Government Technical Board, Kerala

Graduated: 2022 | Grade: 82%

- **Class XII**

J J Murphy Memorial High Secondary School, Yendayar

Kerala State Board | English Medium

Graduated: 2020 | Grade: 80–84.9%

- **Class X**

Government Technical High School Kanjirappally

Kerala State Board | English Medium

Graduated: 2018 | Grade: 100%

WORK EXPERIENCE

Mechanical Engineering Intern

Agrowtein Labs, Kerala (Aug 2024 – Apr 2025)

- Played a central role in the mechanical design process, from conceptual sketches to CAD modeling and validation.
- Designed 10+ mechanical components and agricultural tools using Fusion 360.
- Assisted in fabrication, building of machines, and the assembly of 3D printed parts
- Collaborated with cross-functional teams, including product development and electrical teams, to align mechanical systems.
- Led testing and field validation of pilot-scale systems and optimized designs for cost-effective manufacturing

PROJECT

- Continuous-Type Cardamom Cleaning Machine
- (Jan 2025 – Apr 2025) | Role: Design & Fabrication Lead
- Created a compact machine with shaft-driven continuous operation.
- Reduced water usage by nearly 40% while preserving spice quality.
- Supervised CAD modeling, layout planning, and full fabricatio

INTERNSHIPS

Cochin Shipyard Ltd (5 Days)

- Observed live shipbuilding processes including welding, hull fabrication, and assembly.
- Learned marine safety protocols and project planning across key departments.
- Gained foundational exposure to large-scale manufacturing systems and quality control.

Kelachandra Precision Works, Kerala (2 Weeks)

- Supported operations on CNC, lathe, and milling machines.
- Performed hands-on machining and maintenance tasks in a live manufacturing environment.
- Understood real-world application of precision engineering and shop-floor safety.

TECHNICAL SKILLS

- **CAD & Modeling:** AutoCAD (Intermediate), Fusion 360 (Advanced), 3D Printing
- **Manufacturing:** Fabrication, Lathe, Milling, Assembly
- **Software Tools:** Microsoft Word, Excel, PowerPoint
- **Analysis:** Basic Structural Analysis, Design for Manufacturability

COURSES & COMPETITIONS

- **Smart India Hackathon (SIH)—National Finals:** Led tech support and coordinated logistics
- **NASA Space Apps Challenge:** Proposed sustainability ideas using space-based data
- **SEVC – EV Design Competition:** Improved battery layout and CAD model for EV efficiency
- **National Go-Kart Design Challenge (GKDC):** Finalist; led structural design and modeling

PROFESSIONAL & LEADERSHIP SKILLS

- **Problem Solving:** Resolved design flaws under tight deadlines in competition settings
- **Collaboration:** Worked with interdisciplinary teams during internships and hackathons
- **Leadership:** Spearheaded national-level engineering projects and led student teams
- **Adaptability:** Effectively managed simultaneous design and fabrication roles in high-pressure environments

LANGUAGES

- English: Fluent
- Malayalam: Native