# **Pranay Kiran**

Code + Mechanical = My Engineering Advantage

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## Summary

Multidisciplinary engineer with 5+ years of professional experience in aerospace, robotics, automation, and full-stack development. Proven expertise in establishing lithium battery production lines, automating manufacturing processes, and delivering product solutions from design to deployment.

#### Skills

Engineering: Mechanical Design, Aerospace Analysis, Robotics & Automation, Thermal Battery Design, Manufacturing

Setup

Software: Python, Perl, PHP, Go, SQL/MySQL, Django, Flask, DevOps/Server Automation

Electronics/IoT: ESP32, Arduino, PCB Design, IoT Firmware & Systems

**CAD:** NX, SolidWorks, Fusion 360, FreeCAD **Analysis:** Structural (FEA), Fluid/Aero (CFD)

Soft Skills: Project Management, Cross-disciplinary Leadership, Quick Learner, Mentoring

Robotics Thermal Batteries Automation IoT DevOps

# **Programming Languages**

Python, Perl, PHP, Go, SQL/MySQL, Java (basic), JavaScript (basic), C/C++ (basic)

# **Experience**

## **Design Manager (Mechanical Design)**

Renewable Energy Systems Limited

- · Delivered full-scale lithium production capability
- · Increased throughput with IoT-guided automation
- Improved reliability via glovebox and argon dryer designs
- · Led design of thermal batteries, jigs, and glovebox systems
- · Established lithium battery production line (civil, automation, gloveboxes)
- · Introduced IoT & robotics for automated assembly

#### **Technical Chairperson**

2022 - 2023

2023 - Present

MLR CIE Incubation Center

- Mentored student startups and prototypes
- · Organized workshops and demos, improving innovation culture

#### **Secretary**

2018 - 2021

Service to Mankind (NGO)

- Improved administration and event execution
- Strengthened record management and stakeholder coordination

# **Projects**

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## **Assembly Guidance System & Robotic Arm Automation**

IoT guidance LEDs for operators, scaled to a robotic arm with Al-assisted sequencing.

ESP32, Custom PCB, Firmware, Robotics

- · Reduced training needs
- · Eliminated errors
- · Boosted throughput

#### **Lithium Plant Establishment**

End-to-end lithium line setup: gloveboxes, argon dryer towers, process automation.

- · Built in-house lithium capability
- · Improved safety and reliability

#### **Full-Stack Banking Application**

Startup project: built and maintained full banking platform with DevOps automation.

- · Production-ready system
- · Automated deployment
- · Secure user flows

#### **Hydrogen Fuel Cell Prototype**

Academic project on automotive fuel cell stack design and integration.

## **Achievements**

- · Established lithium battery production line from scratch
- · Automated assembly with IoT & robotics
- · Delivered production-ready banking application
- Contributed to Android ROMs & NGO systems

## **Education**

Matriculation — Genius High School

9.3 / 10 (GPA)

Intermediate — Sri Chaitanya Junior College

73% (Percentage)

**B.Tech Mechanical Engineering** — MLR Institute of Technology

7.8 (GPA)

M.Tech Aerospace Engineering (in-progress) — MLR Institute of Technology

1 year completed

# Languages

Spoken: Telugu, Hindi, English, French (basic)

## **Roles of Interest**

Mechanical Design Lead, Robotics & Automation Engineer, Aerospace Structures Engineer