

# Aarav Garg

I am an entrepreneur, innovator, and speaker. I have been working with robots for the past 5+ years and have also been educating the youth through various ventures. I have also extensively worked hands-on with Java, C++, Flutter, Firebase, TinkerCAD, Fusion360 and EaglePCB.

## EXPERIENCE

### Project Lead - Robotics

#### Purdue Launch Club / Oct 2023 - Present

- Working with the State of Indiana to develop a robotics curriculum framework for state schools.

### Project Manager - Sphero Swarm

#### Purdue Autonomous Robotics Club (ARC) / Sep 2023 - Present

- Spearheading the newest project at ARC with 30+ team members across 5 sub-teams. Heading one of 6 projects for the largest robotics club at Purdue University
- First freshman to get a leadership position at the club

### Founder & CEO

#### Tech Nuttiez / 2021 - Present

- Founded an ed-tech startup that educates the global youth on robotics, AI, and other new-age technologies through an app.
- Built a very complex platform using Flutter (dart) and Firebase.
- Led a team of 30+ people and launched multiple summer internship programs for students with heavy global participation.
- 1.2 Million+ students impacted and 10,000+ active users from 180+ countries
- 12+ corporate partners and multiple educational institutional partners

### Published Researcher

#### Robotics / May 2021 - Present

- 8 published articles on multiple projects of mine spread across 4 leading international electronics publications.

### Contest Judge

#### Autodesk (Instructables) / 2021 - Present

- Judged 50+ contests at an Autodesk company- Instructables (the world's largest do-it-yourself content website). Won many innovation hackathons before being chosen to become a judge for their contests.

### Public Speaker

#### International Conferences / 2019 - Present

- Delivered 3 TEDx talks. Delivered keynote address to corporate leaders- Aditya Birla flagship event, RISE World Summit (with prof. Philip Kotler)
- Conducted workshops at universities for undergrad students.

### Team Lead - Science Exhibition

#### Central Board of Secondary Education India / 2019

- Built a low-cost 'Handy Theodolite' (a measurement and leveling device) for poor farmers using household products. Shrank the cost to \$20. The average industrial cost is \$800. State Winner; National Qualifier

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## EDUCATION

### Purdue University (2023-2027)

#### B. S. Robotics Engineering

- Autonomous Robotics Club (Project Manager), Lunabotics Club, Purdue Launch Club (Project Lead), Purdue Space Program

### FIITJEE (2021-2023)

#### High School (11th and 12th Grade)

- GPA: 93.4%
- 100% merit-based scholarship to study for both years of senior high school

## TECHNICAL EXPERIENCE

**Flutter (2+ Years)** - Built multiple apps in

Flutter with advanced features and APIs

**Java (4+ Years)**

**Android Development (4+ Years)** - Built

extremely advanced android apps

**Firebase (4+ Years)** - Used Firebase APIs for

database, authentication, cloud storage and

much more extensively in app and web

development (android + flutter)

**Arduino (5+ Years)** - Worked on very

advanced projects using Arduino boards

**C++ (5+ Years)** - Used C++ extensively for

embedded programming across projects

## AWARDS

**Young Entrepreneur Award 2023** - NIPER

Hyderabad (educational institution)

**Young Scientist Award 2021** - Awarded by

Innovation Solution Lab for a project

## PROJECTS

**Robotic Arm That Learns**

**Flame Sensor Controlled Candle**

**Pencil Graphite-Based Flex Sensor**

**Pocket Weather Station**

**Sphero Swarm - Purdue University**

**Giant Upsized SD Card**