

Siddharth (Sid) Basapur

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SUMMARY

Electrical and Computer Engineering Honors student with hands-on experience in software development, Firebase backend systems, robotics, Arduino circuitry, and low-voltage electronics. Interested in software, embedded systems, robotics, and automotive technology.

EDUCATION

The Ohio State University, College of Engineering

Columbus, OH

Bachelor of Science in Electrical and Computer Engineering with Honors

Expected May 2029

- Specialization: *Computer Engineering* | GPA: 3.7 | *National Buckeye Scholarship* | *Engineering Honors Program*
- Relevant Courses: *Digital Logic, Analog Systems and Circuits, Linear Algebra, Differential Equations, Java Programming, C Programming, Statistics*

Metea Valley High School

Aurora, IL

High School Diploma

May 2025

- Weighted GPA: 4.2/4.0 | 12 Advanced Placement Courses (AP) and Virtual Enterprises International (VEI)

WORK EXPERIENCE

FiPet

San Francisco, CA

Software Engineer

July 2026 – Current

- Developed and debugged Firebase backend features supporting leaderboard pagination and username-based friend search
- Audited production data to identify inconsistencies and improve backend reliability
- Improved Cloud Function deployment workflows to reduce risk when releasing backend changes

STEMshala Enrichment Center

Naperville, IL

Lead Teacher

June 2024 – August 2025

- Taught elementary students to build and program LEGO robots through hands-on, project-based lessons
- Adapted robotics and STEM instruction to students' experience levels and individual learning needs

PROJECTS

SafeMed Automatic Pill Organizer | Arduino, Embedded Systems, Circuit Design, CAD

- Designed and built an Arduino-controlled automatic pill organizer using keypad input and servo-based compartment positioning
- Integrated custom circuitry, embedded control logic, and CAD-designed components to create a functional prototype

Arduino Agricultural Drone Attachment | Arduino, Embedded Systems, Mechanical Design

- Designed and built an Arduino-controlled drone attachment to distribute fertilizer across uneven agricultural terrain
- Integrated servo-controlled hardware and custom electronics, troubleshooting power and control issues to produce a functional prototype

TECHNICAL SKILLS

Languages: Java, C++, Python, HTML/CSS

Technologies: Firebase, Google Cloud Functions, Arduino, Git/GitHub

Engineering: Robotics, CAD, low-voltage electronics, embedded systems

ACTIVITIES & INVOLVEMENT

Formula Buckeyes SAE: Society of Automotive Engineers

Columbus, OH

Electronics team member

September 2025 – Current

- Contribute to the low-voltage electronics subteam developing electrical systems for a Formula-style race vehicle
- Support team efforts to integrate low-voltage electronic components into the racing vehicle

Honda Launchpad

Columbus, OH

Selected Talent Cohort Beta Member

November 2025 – Current

- Selected for the beta talent cohort; participate in robotics competitions, manufacturing-facility visits, and vehicle demonstrations
- Toured Honda manufacturing facilities and observed automotive technology demonstrations

Health and Design System Integration Lab

Chicago, IL

Design Volunteer in HDSI lab

June 2026 – August 2026

- Developed a prototype website for a particular health condition by auto-aggregating information from various web resources
- This prototype served as the basis for an R21 NIH application