

Aashi Shah

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EDUCATION

The University of Illinois at Urbana-Champaign

Expected Graduation: May 2028

B.S. in Systems Engineering and Design, Concentration in Robotics

GPA: 3.4/4.0

Minors in Computer Science, Statistics

Involved In: Women in Engineering, GHOST Electric Motorcycles, Institute of Industrial & Systems Engineers, Illinois Consulting Group, DisruptionLAB, Hive Society Improv Team, Jain Society of America

TECHNICAL SKILLS

SQL | Power BI | PySpark | Snowflake | Snowpark | C++ | Python | JavaScript | TypeScript | JSON | Circuit Design | DOE | DFA | GD&T | Product Development | Project Management | Leadership | Autodesk Fusion | Microsoft Office Suite

PROFESSIONAL EXPERIENCE

GHOST Electric Motorcycles, Drivetrain Engineer

August 2026 - Present

- Collaborate on the design, development, and testing of high-performance electric motorcycle drivetrains.
- Responsibilities include CAD modeling, torque and efficiency analysis, and hands-on fabrication at RBM Bike Shop.
- Work directly with teammates to manufacture components, integrate the drivetrain with the overall bike.

Pleco Solutions, Data Engineer Intern

May 2026 - August 2026

- Architected end-to-end LLM forecasting pipeline integrating Snowflake, Python, and Claude APIs via Model Context Protocol with C++ execution modules; leveraged agentic AIs (Cursor, Claude Code) to optimize backend performance
- Engineered time-series forecasting models using 18-month moving averages, trend/seasonality decomposition, and MAD-based accuracy tracking in Python, reducing forecast error by 15%.

AviLux Drone-Charging, Project Manager

January 2026 - Present

- Directed 5-person engineering and operations team, establishing the FAA compliance framework (Part 107 certification, LAANC authorization, BVLOS execution pathways) to support a campus-wide drone delivery launch.
- Mapped a phased regulatory roadmap from initial VLOS operations to full Part 135 certification over a 6–36 month horizon, aligning ~90-day waiver processing mobile wireless charging infrastructure for autonomous vehicles.

PROJECTS

PupLog: Petcare Tracking System | *Data Integration & Analytics, User Telemetry Dashboard, IoT Development*

- Designed a full-stack IoT tracking system with NFC tags, Google Apps Script, and automated SMS alerts.
- Developed a custom web dashboard in HTML/JS to parse Sheets-as-JSON data and display daily telemetry reports.

Dozed: IoT Smart Sleep System & Adaptive Alarm | *Cost Reduction, Biometric Signal Processing, Embedded Systems*

- Engineered and built an IoT sleep system using PPG heart sensors and Raspberry Pi to track REM cycles and trigger real-time light/audio sequences to eliminate sleep grogginess, reduced BOM costs by 65% to under \$100 per unit.

Applause Meter Circuit | *Analog Circuit Design, Signal Conditioning, Hardware Debugging, Component Validation*

- Built an analog circuit with microphone amplifiers & comparators to illuminate LEDs as ambient volume increased.
- Designed peak detectors with timed-release RC delays and signal conditioners; tested using oscilloscope, multimeter.

AWARDS & HONORS

1st Place Winner / ProductSpace Hackathon

- Built TETHER, a women's safety application using Supabase, SQL, real-time location tracking, and SMS alerts.

Mottier Innovation Competition / Department of Industrial & Enterprise Systems Engineering

- Awarded for developing & pitching Dozed, to former GE Aviation Systems CEO Brad Mottier & other ISE alumni.

2nd Place Winner / Tekweld x Illinois Design Challenge

- Selected top two out of 30+ teams for developing a modular smart business card integrating QR/RFID technology.

RELEVANT COURSEWORK

Differential Equations | Analysis of Data | Solid Mechanics | Dynamics | Business Side of Engineering | Macroeconomic Principles | Discrete Structures | Statics | Electricity & Magnetism | Thermal Physics | Novel Engineering