AHMED SECEN

Carmel, IN — Cincinnati, OH
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EDUCATION

University of Cincinnati Cincinnati, OH
Bachelor of Science, Mechanical Engineering — GPA: 3.52/4.0 *Aug. 2025 – May 2030*
- Relevant Coursework: Engineering Design Thinking II, Engineering Applications II, Calculus II

SKILLS

Programming: Python, Typescript, JavaScript
Tools: Microsoft Office Suite
3D Modeling: Solidworks, Blender, Autodesk Revit, SketchUp, Autodesk Fusion 360

EXPERIENCE

Kinetic Vision Cincinnati, OH
Physics Simulation Engineering Co-op (Incoming) *Aug. 2026 – Dec. 2026*
- Will work in the simulation division to simulate, test, optimize, and redesign products and processes across a spectrum of physical problems.
- Methods include Finite Element Analysis (FEA), Computational Fluid Dynamics (CFD), and Discrete Element Methods (DEM).

SMC Indianapolis, IN
Engineering Intern (Incoming) *May 2026 – Aug. 2026*
- Will work on pneumatic and electric actuators.

CAD Designer Oct. 2025 – Nov. 2025
Affiliated with Beltways
- Used Autodesk Fusion 360 to model a prototype wind turbine system, focusing on structural integration and load distribution.
- Designed and iterated on turbine components (blades, hub, housing) using parametric modeling to improve manufacturability and efficiency.
- Generated detailed part and assembly drawings with dimensions, tolerances, and annotations for fabrication and review.

Engineering Teaching Assistant Aug. 2024 – Jan. 2025
Carmel High School *Carmel, IN*
- Aided students with coursework in the Civil Engineering and Architecture class.
- Instructed students in technical drafting and Autodesk Revit.

PROJECTS

Contentful.AI | *Next.JS, React, Supabase, Clerk* July. 2024 – Sept. 2025
- Built a full-stack web app to transform long-form articles into platform-optimized social media posts using integrated AI models.
- Implemented Clerk OAuth for authentication and Supabase for user data management.

HotSeat | *Python, React, Raspberry Pi, 3D Printing* Aug. 2024 – May 2025
- Developed a real-time web interface on Raspberry Pi to display library occupancy with ±3 person accuracy.
- Designed and 3D-printed PLA housings; integrated OpenAI Vision for image analysis.