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

Carmel High School   Carmel, IN
High School Diploma   *Aug. 2021 – May 2025*

SKILLS

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

EXPERIENCE

CAD Designer   Oct. 2025 – Nov. 2025
Beltways - Affiliated
- 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, focusing on 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.
- Taught students 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 via dual integrated AI models (OpenAI GPT-4o, Anthropic Claude).
- Implemented Clerk OAuth to manage user account management.
- Used Supabase to store user data.

HotSeat | *Python, React, Raspberry Pi, 3D Printing*   Aug. 2024 – May 2025
- Used a Raspberry Pi to develop a real-time web interface displaying the occupancy counts of a public library with 1,600+ daily visitors from 15+ feet away with ±3 person accuracy and a system response time of less than one second.
- Designed and built housings for all components using PLA plastics.
- Integrated OpenAI's Vision model for base64 image analysis and structured JSON response.

AWARDS

Dean's List   Fall 2025
University of Cincinnati

Design Competition Winner, Architectural Engineering Institute   Oct. 2025
University of Cincinnati

Available to Co-Op: Fall 2026