AHMED SECEN

Carmel, IN — Cincinnati, OH
463-248-9301 | secenah@mail.uc.edu | linkedin.com/in/ahmedsecen |

EDUCATION

University of Cincinnati Cincinnati, OH
Bachelor of Science, Mechanical Engineering — GPA: 3.62/4.0 *Aug. 2025 – May 2030*
- Relevant Coursework: Engineering Design Thinking II, Engineering Applications II, Calculus II, Physics I

SKILLS

Programming: Python, Typescript, Matlab
Tools: Hypermesh, Catia, Siemens NX, Solidworks, Blender, Revit, Fusion 360

EXPERIENCE

Kinetic Vision Cincinnati, OH
Simulation Engineering Co-op *Aug. 2026 – Present*
- Creating finite element simulations of consumer products with LSDyna and Abaqus solvers.

SMC Noblesville, IN
Actuator Engineering Intern *May 2026 – Aug. 2026*
- Performed root cause analysis and repair of pneumatic cylinders across 10+ product lines, supporting product reliability and customer issue resolution.
- Led the design of custom pneumatic actuators for customer-specific applications in SolidWorks, generating manufacturing drawings, BOMs, and cost estimates for production release.
- Utilized SolidWorks PDM to manage CAD models, maintain revision control, and ensure documentation accuracy throughout the product lifecycle.
- Generated and released 5+ new production part numbers in Aras Innovator PLM based on customer-driven design modifications and requirements.
- Collaborated with lead engineers to standardize and migrate 500+ legacy part numbers using Infor SyteLine and Tacton, improving product data management efficiency.
- Obtained Certified SolidWorks Associate (CSWA) certification.

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.

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 with Raspberry Pi to display library occupancy with ±3 person accuracy via OpenAI Vision analysis.
- Designed and 3D-printed wall-mounted circuit board and camera housing assemblies.