Andrew King

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EDUCATION

Kennesaw State University | **Marietta, GA**

Bachelor of Science in Mechanical Engineering (BSME), Minor in Computer Science
Projected Graduation: December 2026
Overall GPA: 3.80

Engineering Projects

Spring Powered Ping Pong Launcher | **Marietta, GA** | *September 2025 - December 2025*
- Designed, analyzed, and manufactured a spring-powered ping pong launcher as part of a team-based Machine Design project
- Led spring sizing, shaft fatigue analysis, and bearing life verification using analytical methods and a parametric Excel design tool
- Validated component safety factors and stability requirements before fabrication
- Achieved **1st place out of 14 teams** in a performance-based competition by successfully launching ping pong balls into a target from 8 ft

CAE Flying Car Simulations | **Marietta, GA** | *September 2025 - December 2025*
- Developed a conceptual flying car frame and conducted static structural and fatigue FEA in SolidWorks Simulation
- Evaluated stress distribution, deformation, factor of safety, and fatigue life under representative loading conditions
- Performed CFD simulations to visualize external and internal airflow around the propeller concept and compare lift and shaft torque trends
- Used simulation results to inform design decisions and assess structural robustness

Pulley Car Project | **Marietta, GA** | *February 2024*
- Designed and built a pulley-driven vehicle for a class competition focused on maximizing travel distance
- Implemented a brick-based frame and steering mechanism to improve stability and load handling

AI-Driven Pipeline | **Atlanta, GA** | *May 2024 - August 2024*
- Designed and implemented an AI-driven pipeline to translate user requirements into KPIs, personas, user journeys, and tasks
- Collaborated with cross-functional teams to automate early-stage product planning workflows

Communication Portal | **Atlanta, GA** | *May 2024 - August 2024*
- Developed frontend features for an internal communication dashboard, enabling filtering and export of structured data
- Improved usability and accessibility of internal reporting tools

ATM Configurator | **Atlanta, GA** | *May 2024 - August 2024*
- Modernized an internal ATM configurator tool during NCR Atleos' annual hackathon
- Reduced configuration and quoting turnaround time by streamlining the user workflow

Experience

Software Engineering Internship at NCR Atleos | **Atlanta, GA** | *May 2024 - August 2024*
- Collaborated on software modernization efforts to transition legacy platforms to AI-enabled systems
- Supported development, testing, and integration of internal tools across multiple projects

Robotics | **Marietta, GA** | *August 2023 - Present*
- Assisted in the design and manufacturing of competition robots for national-level robotics events
- Programmed autonomous and driver-controlled robot systems, including drivetrain, intake, and pneumatic subsystems
- Contributed to a **top-50 global ranking in skills** by ensuring compliance with competition rules and performance requirements

Leadership and Activities

Owl Robotics Club | **Marietta, GA** | *Vice President, August 2025 - Present | Member, August 2023 - Present*
- Part of the team that earned a top-50 global ranking in skills for the 2023-2024 season
- Team won the Innovate Award at the Virginia Tech Competition in 2025
- Coordinated team operations, mentored members, and ensured adherence to project timelines

Honors

Kennesaw State Honor College | **Marietta, GA** | *August 2022 - Present*
- Participated in a specialized curriculum focusing on leadership and communication development

Bobbie Bailey Foundation Honors Scholarship | **Marietta, GA** | *2023 - Present*
- Provided annually for academic excellence as part of the Honors College

Zell Miller Scholarship | **Marietta, Ga** | *2022 - Present*
- Provided annually for maintaining a 3.7 Hope GPA in the state of Georgia

Skills

Tools/Software: SolidWorks, Autodesk Inventor, MATLAB, Excel, Google Docs
Engineering Skills: 3D CAD Modeling, Mechanical Design, Engineering Analysis, Finite Element Analysis (FEA), Fatigue Analysis, Data Analysis
Programming Languages: Python, C#, TypeScript, React