**Alex Jordan**Fairfax, VA 22030 ∙ (703) 555-5555 ∙ ajordan@gmu.edu

**PROFILE**

Mechanical Engineering student with experience in thermal systems, control theory, and mechanical design. Proficient in MATLAB, SolidWorks, and ANSYS for simulation and prototyping. Proven ability to collaborate on complex engineering projects, including EV battery thermal management and autonomous robotics for industrial applications.

**EDUCATION** [list your education starting with the most recent and work backwards – delete this note]

George Mason University (GMU), Fairfax, VA May 20XX
**Bachelor of Science, Mechanical Engineering**

*Relevant Coursework:*  Fluid Mechanics, Thermodynamics, Dynamics, Control Systems, Mechanical Design

**TECHNICAL SKILLS**

**Languages**: MATLAB, C/C++, Python (if applicable)

**Software**: AutoCAD, SolidWorks, MATLAB Simulink, LabVIEW, ANSYS, COMSOL, Excel

**Mechanical Systems**: Kinematics, Dynamics, Control Systems, Robotics

**Simulation**: Modeling, Analysis, Optimization, Design Verification

**Other**: 3D Printing, Prototyping, Mechanical Design, Thermal Systems

**PROJECTS** [list your projects starting with the most recent and work backwards – delete this note]

**Senior Design Project**

*Thermal Management System for Electric Vehicle Battery* Jan 20XX- May 20xx

* Conducted simulations using MATLAB to design an efficient thermal management system for a lithium-ion battery in electric vehicles.
* Applied heat transfer principles to design passive cooling solutions to optimize battery performance and lifespan.
* Collaborated with a team to produce detailed CAD models and a prototype for testing in lab environments.

*Design and Simulation of Autonomous Mobile Robot for Indoor Navigation* Nov 20XX

* Designed and simulated a mobile robot capable of autonomous indoor navigation using C/C++ for control systems and MATLAB for sensor integration.
* Applied principles of robotics and control theory to ensure real-time response and accuracy.
* Developed a prototype model and performed testing to evaluate performance, including navigation algorithms, battery efficiency, and obstacle avoidance.
* Presented findings to industry professionals and received positive feedback on the practical applications for automation in warehouse environments.

**RELATED EXPERIENCE** [list your experience starting with the most recent and work backwards – delete this note]

**Mechanical Engineering Intern**
*NASA Langley Research Center* | Hampton, VA June 20XX

* Contributed to research and development of thermal control systems for aerospace applications.
* Assisted in the design and simulation of mechanical systems using MATLAB and Simulink for performance optimization.
* Conducted thermal analysis and material testing to ensure system efficiency and reliability.
* Collaborated with senior engineers to implement design modifications.