Ava Ianuale

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OBJECTIVE: *Aspiring engineering student passionate about aerospace and sustainable design. Eager to apply my strong foundation in fundamental engineering concepts and tools to real-world air and space applications.*

EDUCATION

Cornell University, College of Engineering, Ithaca, NY **Expected May 2026**
B.S. Mechanical and Aerospace Engineering; Materials Science and Engineering Minor
GPA: 4.077; Major GPA: 4.170; Dean's List (Fall 2022 – Spring 2025)

Relevant Completed Coursework: Propulsion of Aircraft and Rockets, Mechatronics, Heat Transfer, Fluid Mechanics, System Dynamics, Mechanics of Engineering Materials, Statics, Thermodynamics, Molecular and Atomic Structure of Matter

PROFESSIONAL EXPERIENCE

SpaceX, Starlink Intersatellite Laser Production, *Integration & Test Engineering Intern* **May – Aug 2025**

- Designed, built, and oversaw rollout for a glue dispensing robot which reduced technician touch time by 87%
- Developed an original transceiver thermal testing fixture, maximizing capacity within existing equipment constraints to deploy a 16-unit stand
- Developed a fixture for transceiver power-on tests to meet the 100 unit/shift demand, prioritizing user experience and product longevity
- Performed design evaluation and verification for all projects to justify change in the production process
- Identified potential improvements in existing production processes and designed/implemented solutions

Schneider Electric, ASCO Power Technologies, *Continuous Engineering Intern* **Jun – Aug 2024**

- Evaluated the necessity of certain wires in three harnesses and subsequently redocumented the base models of the G-Frame 7000 series automatic transfer switches (ATS)
- Collaborated with and communicated changes to teams across the US, Mexico, and India

Schneider Electric, ASCO Power Technologies, *Engineering Intern* **Jun – Aug 2023**

- Modernized and facilitated access to Power Control Systems (PCS) project documentation using Promis-e
- Revised and updated drawing templates in AutoCAD with the PCS drafting team
- Learned about project management, R&D, product management, sales, etc. through network meetings

PROJECT & RESEARCH EXPERIENCE

Cornell Electric Vehicles (CEV), Cornell University, *Drivetrain Lead* **Oct 2022 – Present**

- Team of 60+ students focused on designing and building hyperefficient, autonomous battery electric vehicles to compete in the Shell Eco-marathon
- Oversaw all projects related to the vehicle's mechanical power transmission
- Owned the 2025 hub assembly, facilitating the switch from a chain drive to a more efficient 20 mi/kWh dual-motor system
- Owned the 2024 motor mount, eliminating visible vibrations and reducing assembly/adjustment time 6x

Geometric Optics, Stony Brook University Laser Teaching Center, *Student Researcher* **Jun 2021 – Jun 2022**

- Researched invisibility cloaking methods to develop a cloak using axicon lenses with a circular cloaking region
- Presented cloaking research at Symposium for Undergraduate Research at FiO/LS conference

CAMPUS INVOLVEMENT

PE 1640 Basic Rock Climbing, Cornell Outdoor Education, *Instructor*
Tutor: Statics and Thermodynamics, Cornell Office of Inclusive Excellence, *Peer Tutor*
Climbing Wall Monitor, Lindseth Climbing Center, *Staff*
Cornell Maker Club, Cornell University, *Member*

SKILLS

Design: CAD (Siemens NX, Autodesk: Inventor, Fusion, AutoCAD), DFM, DFA, GD&T, test engineering, 2D drawings
Analysis: FEA (Ansys – Static Structural and Thermal), verification & validation, requirements analysis
Manufacturing/Fabrication: Manual machining (mill, lathe), 3D printing, laser cutting, rapid prototyping
Programs: MATLAB, Arduino IDE, Python