Nathan Cinocca

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EDUCATION

Texas A&M University	**College Station, Texas**
Master of Science in Finance	*May 2025*
Mays Business School	*Cumulative GPA: In Progress*

Texas A&M University	**College Station, Texas**
Bachelor of Science in Electrical Engineering	*May 2024*
College of Engineering	*Cumulative GPA: 3.79/4.00*

PROFESSIONAL EXPERIENCE

Midcontinent Independent System Operator — **Carmel, Indiana**
Adequacy Intern — *May 2024 – August 2024*

- Performed calculations of coincident peak loads across 10 MISO zones to enhance market participant reliability analysis
- Collaborated with a team of three to investigate and resolve significant discrepancies in generation data within the loss of load expectation model across successive years
- Managed relations with over 25 market participants to fix 150+ inconsistencies between MISO databases

Midcontinent Independent System Operator — **Eagan, Minnesota**
Expansion Planning Intern — *May 2023 – August 2023*

- Created a Python script to fix incompatible bus voltage angles that prevent power flow solutions in PSSE models; saves 5-10 minutes for each incompatible bus voltage angle
- Developed a Python script to obtain transmission lines from the MISO grid above 230kV and 50 miles in length; calculated safe loading limits of these lines to determine more accurate power flow limitations
- Evaluated how the creation of a new substation affects MISO's grid and presented the results to 30-40 stakeholders
- Mitigated thermal and voltage violations created from N-1 contingencies in the MISO region by analyzing power flow, taking transmission lines in/out of service, and increasing/decreasing switch shunt capacitors

Kumon Math and Reading Center — **Tulsa, Oklahoma**
Center Assistant — *September 2019 – August 2020*

- Evaluated and corrected up to 1000 student errors in both math and reading homework assignments daily
- Instructed dozens of students how to apply mathematical formulas from geometry to calculus through demonstration and conceptual walkthroughs

LEADERSHIP & INVOLVEMENT

Senior Capstone Design — **College Station, Texas**
Project Team Leader — *August 2023 – May 2024*

- Managed a team of two to research, design, and create a half-duplex acoustic, ultrasonic radio
- Designed, validated, and tested a microphone amplifier, 50 kHz centered frequency modulator, and high gain power amplifier
- Implemented the designs on individual PCBs for testing, and a PCB with all circuits for the transmitter side of the radio

Aggies Invent: Vet Medicine — **College Station, Texas**
Second Place Team Winner — *January 2021 – February 2021*

- Designed an automatic cat feeder (Furry Feeder) to combat cat obesity with a team of 6 over 48 hours by researching methods to address cat feeding times, nutrition, storage, and security
- Presented Furry Feeder to a team of judges scoring the invention on innovativeness, practicality, and effectiveness; achieved second place and $125 prize

SKILLS, ACTIVITIES & INTERESTS

Technical Skills: Python, Excel, PowerPoint, PSSE, TARA, C++, Altium Designer, Cadence, Circuit Layout Design, Multisim, LT Spice, Soldering,

Activities: Aggies Invent, STEM to Stock Guild, Intramurals, IEEE, The Big Event

Interests: Weight Training, Volleyball, Intramurals, Fantasy and Science Fiction Novels, Baseball, Basketball, Music, Anime/Manga, Guitar