TOMMY VOELKER

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EDUCATION

2023-2026	**THAYER SCHOOL OF ENGINEERING AT DARTMOUTH**	Hanover, NH

Bachelor of Engineering, Electrical Engineering
- GPA: 3.78
- Electrical Engineering for Dartmouth Formula Racing

2021-2023	**COLBY COLLEGE**	Waterville, ME

Bachelor of Arts, Physics, Data Science Minor
- GPA: 3.99
- Co-Head, Pre-Engineering Program
- Climbing team membeBiology lab assistant

2023	**THE TUCK SCHOOL OF BUSINESS AT DARTMOUTH**	Hanover, NH

Tuck Business Bridge Program
- Participated in a 3-week program taught by MBA faculty, providing an in-depth introduction to accounting, finance, microeconomics, marketing, and strategy
- Performed a team-based valuation in analysis of Take-Two Interactive, which included financial and strategic assessments, DCF analysis, and presentation
- Completed the MBA Math's Quantitative Skills Course

2017-2021	**PHILLIPS EXETER ACADEMY**	Exeter, NH

- Varsity Tennis and Wrestling

EXPERIENCE

Summer 2024	**DATA ENGINEERING INTERN**	Peoria, IL

Caterpillar (CAT)
- Utilized SQL in Snowflake and Power BI to create a comprehensive dashboard that flagged 1000+ errors in product quality data, including product names, build locations, and serial numbers. Enhanced data integrity through data cleaning and filtering
- Spearheaded the Facility Master project, integrating logistics, finance, and HR data into a unified data structure. Created an ER diagram and built tables in Snowflake
- Managed a 16-person team for the Facility Master, applying pseudo-Six Sigma methods through regular meetings and outreach to ensure project milestones were met on time
- Operated an excavator, bulldozer, and track type loader

2022-2024	**MANUFACTURING ENGINEERING INTERN**	Hanover, NH

Fujifilm Dimatix (Produces printheads for industrial printing)
- Developed and tested a ladder logic program that efficiently cleaned ink from printheads reducing cleaning time 38% and fluid use 44%. Utilized a spectrophotometer for precise measurement and completed capability analysis in Minitab
- Analyzed rework attempts for failed printheads by querying data from an Oracle database and performing analysis in Excel. Identified optimal rework procedures based on success rates and printhead status

Spring 2023	**VECTOR CALCULUS TEACHING ASSISTANT**	Waterville, ME

Colby College
- Hosted weekly help sessions and graded homework assignments for 30 student class

2021-2022	**ROCK WALL MONITOR**	Waterville, ME

Colby College
- Taught safe and practical climbing skills, belayed climbers, and fostered an inclusive and supportive environment for both new and experienced climbers

PERSONAL

- Rock Climbing – Topped 600+ feet tall cliffs and competed in local climbing competitions
- Engineering projects – Built an analog heart rate monitor and programmed Conway's Game of Life using VGA
- Blender Animation – Produce short animations and design models for 3D printing
- Excel, Python, MATLAB, Minitab, PowerPoint, SQL, Power BI, Studio 5000, R
- Finished top 8% in the Bridgewater x Metaculus forecasting competition