

Ethan Gramowski

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EXPERIENCE

TURBO Telescope, University of Minnesota — Undergraduate Researcher

August 2024 - present

The primary goal of [Turbo](#) is to observe neutron star collisions. I primarily work on our data analysis pipeline and PostgreSQL database. I built a web tool for troubleshooting using [Next.js](#). I also have extensive experience constructing and training CNNs for image analysis.

Wang Group, University of Minnesota — Undergraduate Researcher

May 2023 - December 2024

I joined the [Wang Group](#) as an undergraduate researcher where I work to exfoliate (primarily) graphene hexagonal and boron nitride flakes onto silicon dioxide wafers to produce twistrionic devices. I contributed to a paper published in [Physical Review B](#).

FIRST Robotics Competition, Hopkins High School — Structures and Build Team lead, three consecutive years

June 2018 - May 2021

I participated in the First Robotics Competition (FRC) for three years in high school. During this time, I held a leadership position on the team.

EDUCATION

University of Minnesota, College of Science and Engineering — Astrophysics (B.S.), Physics: Professional Emphasis (B.S.)

August 2021 - May 2025

I recently graduated from the University of Minnesota's College of Science and Engineering with a B.S. in astrophysics and another in physics. I also have a strong background in data science and computer science.

Hopkins High School, Minnetonka MN — High School Diploma

September 2018 - May 2021

I played the cello in three orchestras, was involved in several extracurricular activities including FIRST Robotics Competition and Math League, and was an AP/Honors student.

SKILLS

Leadership

ML (CNNs)

Solidworks, Onshape, AutoCAD

CNC/Automation

Various lab equipment (oscilloscope, AWG, DMM, electron microscope, spectrum analyser, etc...)

MATLAB

PostgreSQL

PyTorch

TensorFlow

TypeScript

Kafka, Amazon SQS

LabView

React

DesignCAD

HTML/CSS

JavaScript

RxJS

Verilog

TSX/JSX

Effect

