

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 React + Next.js.

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. This summer I worked on a project studying the band gap topology of Moiré systems via observation of the valley Hall effect in graphene.

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, Twin Cities — Astrophysics (B.S.) and Physics: Professional Emphasis (B.S.)

August 2021 - May 2025

I am currently a fourth-year student at the University of Minnesota Twin Cities studying astrophysics and professional physics in the college of science and engineering. I have a strong background in data science and computer science.

Hopkins High School, Minnetonka — 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

Excel

Solidworks, Onshape, AutoCAD

CNC/Automation

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

MATLAB

PostgreSQL

Python

TypeScript

Kafka, Amazon SQS

LabView

React

DesignCAD

HTML/CSS

JavaScript

SQL

Verilog

TSX/JSX

RxJS

