

# ARI MIRSKY

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## OBJECTIVE

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A research opportunity which will allow me to gain hands-on experience with construction and testing of telescope components.

## EDUCATION

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### Cornell University

*John McMullen Dean's Scholar*

*B.S. in Applied and Engineering Physics, In Progress (Anticipated May 2025)*

*GPA: 4.21/4*

Ithaca, NY

*Aug. 2021 – Present*

### Briarcliff High School

*Regents Diploma with Honors and Distinction in Mathematics*

*GPA: 101.36/100*

Briarcliff Manor, NY

*Sep. 2017 – June 2021*

## RELEVANT COURSES

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- Introduction to Experimental Physics
- Digital Logic and Computer Organisation
- Introduction to Special Relativity
- Differential Equations for Engineers
- Linear Algebra for Engineers
- Multivariable Calculus for Engineers
- Engineering Quantum Information Hardware
- Object Oriented Programming and Data Structures
- Discrete Structures
- AP Physics C: Mechanics
- AP Physics C: Electricity and Magnetism
- AP Computer Science A
- AP Mathematics: Calculus BC

## EXPERIENCE

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### Research Assistant, Rivnay Research Group

*Northwestern University*

- Independently designed and conducted experiments about properties of organic electrochemical transistors
- Created documentation for newly constructed apparatuses
- Wrote 12 page research paper summarizing findings

Sep. 2018 – June 2020

*Evanston, IL*

### Navigation Developer, Cornell Autonomous Bicycle

*Cornell University*

- Contributed to a repository with 25k+ lines of code
- Worked with a team to create path following and collision avoidance algorithms
- Integrated bicycle hardware with pathing software using ROS

Oct. 2021 – Present

*Ithaca, NY*

## PROJECTS

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### Discord Bot | *Python, Discord.py*

- Created a discord bot that responded to messages sent in selected discord servers
- The bot asynchronously responded to user input
- Integrated with open source Discord.py

June 2021 – July 2021

### Inverted Pendulum Game | *Java, Git, Swing*

- Created a game about balancing an inverted pendulum
- Designed a custom user interface using Swing
- Implemented user-adjustable difficulty settings

Dec. 2021 – Present

## TECHNICAL SKILLS

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**Languages:** Java, Python, Anaconda, JavaScript, HTML/CSS, R, OCaml

**Frameworks:** Swing, FastAPI, Discord.py, ROS

**Developer Tools:** Git, Visual Studio Code, Eclipse, BlueJ, Jupyter Notebook

**Libraries:** NumPy, Matplotlib