

# PETER MANTO

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1513 Virginia Avenue, Charlottesville, Virginia, 22903

## EDUCATION

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**University of Virginia, Echols Scholar**

Bachelor of Science, Physics

Bachelor of Arts, Economics

Minor, Computer Science

*August 2020 - Present*

Overall GPA: 3.6

## RESEARCH EXPERIENCE

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**University of Virginia**

*Experimental Nuclear and Particle Physics*

*Summer 2018 - Spring 2020*

Research group led by Dr. Gordon Cates

Collaboration with Jefferson National Laboratory in investigating the spin-structure of the neutron

My task was to assist in creating polarized helium-3 targets to be used in the J-Lab particle accelerator

Worked in filling the targets with volatile materials (rubidium, potassium, helium-3)

Assisted in operation of optical pumping apparatuses (laser pumping, NMR, custom equipment software)

Investigated possible new spin-exchange technique of magnetic degaussing

## INTERNSHIP EXPERIENCE

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**Northrop Grumman Corporation**

*HIP Mentorship Program*

*Fall 2018 - Spring 2020*

Competitive engineering and business oriented internship

Designed, constructed, and tested two year-long projects

Worked in a two-person team to satisfy material and time constraints

## ON-GROUNDS INVOLVEMENT

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**UVA Mock Trial**

Practice schedule of at minimum 10 hours per week

Out-of-state tournaments approximately once per month

National Championship winning team (2006, 2007, 2017)

*August 2021 - Present*

**Society of Physics Students**

Member of executive board, Webmaster

Coordinate events and lectures among physics undergraduates and professors

*August 2021 - Present*

**Jefferson Literary and Debating Society**

Second-oldest Greek-lettered society in the United States

Active regular-member serving on the Pen and Ink committee

*Fall 2020 - Present*

## ADDITIONAL SKILLS

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**Language**

Conversational Spanish

**Computer Programming**

Proficient in C, C++, Java, Python, HTML,  $\text{\LaTeX}$

Also proficient in Microsoft Excel, PowerPoint, Git Software