

# PETER MANTO

peterhmanto@gmail.com

+1 (434) 546 4086

1513 Virginia Avenue, Charlottesville, Virginia, 22903

## EDUCATION

---

**University of Virginia, Echols Scholar**

*August 2020 - Present*

Bachelor of Science, Physics

Overall GPA: 3.6

Bachelor of Arts, Economics

Minor, Computer Science

## RESEARCH EXPERIENCE

---

**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

---

**Northrop Grumman Corporation**

*Fall 2018 - Spring 2020*

*HIP Mentorship Program*

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

---

**UVA Mock Trial**

*August 2021 - Present*

Practice schedule of at minimum 10 hours per week

Out-of-state tournaments approximately once per month

National Championship winning team (2006, 2007, 2017)

**Society of Physics Students**

*August 2021 - Present*

Member of executive board, Webmaster

Coordinate events and colloquiums between physics undergraduates and professors

Maintain and regularly update website written in HTML, JavaScript, Ruby

**Jefferson Literary and Debating Society**

*Fall 2020 - Present*

Second-oldest Greek-lettered in the United States

Active regular-member serving on the Pen and Ink committee

## ADDITIONAL SKILLS

---

**Language**

Conversational Spanish

**Computer Programming**

Proficient in C, C++, Java, Python, HTML, L<sup>A</sup>T<sub>E</sub>X, Git

Also proficient in Microsoft Excel, PowerPoint software