

# JOHN LASER

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## EDUCATION

William & Mary, Williamsburg, VA  
Bachelor of Science, May 20XX  
Major: Physics GPA: 3.65

## HONORS AND AWARDS

Dean's List: Spring 20XX, Fall 20XX, Spring 20XX, Fall 20XX, Spring 20XX  
James Monroe Scholar, selected for academic performance in top 7% of student body  
Mortar Board Honor Society Member, 20XX  
W&M Student Leadership Foundation Graduate, Fall 20XX

## SKILLS

Software: MATLAB (advanced use through research and courses), R (basic), Python (wrote original code), LabView G (intermediate), Excel (advanced formulas, power query)

Laboratory: XRD, Raman spectroscopy, analog electronics, ceramic tube furnace, SEM, high frequency pulsed laser

Hardware: Soldering, surface mount, carpentry, welding (skills developed through Makerspace)

## RESEARCH EXPERIENCE

Research Assistant, Quantum Optics Lab, William & Mary January 20XX - Present

- Senior Thesis under Dr. Irina Novikova - micro-resonator fabrication and prism coupling
- Design, build, test, and align optical experiment
- Fabricate 1.5mm radius solid-stage optical micro-resonator in LiNbO<sub>3</sub> by hand
- Optimize evanescent wave coupling to the micro-resonator via prism coupler, improving the Q-factor and reaching a Q-factor  $> 2 \cdot 10^7$
- Funded by \$3000 James Monroe Scholar grant during Summer of 20XX

Student Researcher, Stanford Research Institute, Menlo Park, CA May - August 20XX

- Assisted Dr. Gregory Faris on project entitled "Metal Nanoparticles for Multiplexed Bioanalysis"
- Maintained hardware, wrote LabView programs for acquiring/processing data
- Set up optical instruments and created nanoparticle samples
- Funded by National Science Foundation REU grant

## ACTIVITIES

Chairman, Society of Physics Students, William & Mary January 20XX - Present

- Manage and organize meetings for Solar Cells On the Roof of Small (SCORS) project

Coordinator, Physics Fest, William & Mary Fall 20XX

- Worked with faculty members and other students to create an electromagnetic spectrum themed science fair
- Demonstrated hovercraft testing, built radios, mixed liquid nitrogen ice cream, and implemented a Ruben's tube

## WORK EXPERIENCE

Office Assistant, Campus Recreation, William & Mary September 20XX – May 20XX

- Conducted market research campaign which resulted in increased participation in intramurals program
- Re-organized database and updated archives for officials and participants