Ryan Anselm

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EDUCATION

Columbia University Expected Graduation: May 2024
BS in Computer Science, Minor in Applied Math *New York, NY*
GPA: 4.0/4.0

EXPERIENCE

Grader at Art of Problem Solving September 2021 - Present

· Provided constructive feedback and helped students understand material in online math & chemistry courses.

Computational Chemistry Undergraduate Researcher January 2021 - August 2021

· Worked in the Henkelman Group at UT Austin developing heuristics for finding and characterizing charge density critical points in the *Grid-based Bader Charge Analysis* research project.
· Gained familiarity with Fortran, numerical methods, and scientific programming practices.

Summer Intern at Applied Optoelectronics, Inc. June 2020 - August 2020

· Designed and programmed a robot arm system for loading and unloading semiconductor chips.
· Implemented a basic visual inspection system for quantifying and correcting chip misalignment using LabVIEW.

ACTIVITIES

Columbia University Science Olympiad 2021 - Present
Co-Founder & President

· Organized 60+ Columbia students to volunteer at Greater New York City area Science Olympiad tournaments.
· Selected as an Exam Author/Event Supervisor for the following tournaments: Nationals (2021, 2022), MIT (2021, 2022), UT Austin (2020, 2021), UPenn (2021), Princeton (2020)
· Organized and directed the ATX Game On Tournament, a coding contest introducing the Scratch programming language to 40+ students in grades 6-9.

Columbia University Robotics Club 2021 - Present

· Developed motion & sensing systems for the Autonomous Vehicles project.

HONORS

United States National Chemistry Olympiad High Honors 2019, 2020

· Placed among the top 50 nationwide on the USNCO National Exam out of ∼15,000 students.

USA Physics Olympiad Semifinalist 2020

· Placed among the top 400 nationwide on the USAPhO F=ma exam out of ∼3,000 students.

National Merit Finalist 2020

USA Computing Olympiad Gold Division 2019

SKILLS

Programming Languages: Python, Java, C++, C, HTML/CSS, Fortran, Julia, LabVIEW
Python Libraries: NumPy, Matplotlib, Pandas, PyTorch, OpenCV, SciPy