

VLADIMIR BONDAR

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EDUCATION

Moorestown High School
Moorestown, New Jersey, 08057
GPA: 4.24 (weighted 4.0 scale)

September 2021 - June 2025

Purdue University
Major: Computer Engineering

September 2025 - May 2029

EXPERIENCE

Combustible Lemons - FIRST Robotics Team 5113
Lead Systems Engineer

September 2022 - March 2025
Moorestown, NJ

- Designed a control system for autonomous navigation
- Facilitated the design and simulation process for a robot chassis
- Manufactured components on CNC, laser, and 3D printer
- Contributed to open source robotics software

Purdue University - Department of Physics - Pushkar Lab
Research Intern

Summer of 2023
West Lafayette, IN

- Synthesized Metal Organic Frameworks (MOFs) under inert atmospheres
- Ran data analysis via UV-Vis, electrochemical analysis, Raman spectroscopy, and NMR to characterize MOFs
- Presented research at group meetings

Rowan University - Department of Chemistry - Perez Lab
Research Intern

Summer of 2024
Glassboro, NJ

- Performed literature review and retrosynthetic analysis
- Synthesized piperazines and disubstituted benzenes
- Collected and analyzed NMR, FTIR, and HPLC data to characterize organic molecules

PUBLICATIONS

- Jully Patel, N. P. Dileep, [Vladimir Bondar](#), Priya Gopal, Anton V. Sinitskiy, Sergei Savikhin, and Yulia Pushkar, “Unification of light absorption and catalytic capability in Fe-Triazolate Metal-Organic Framework for artificial photosynthesis”, *Accepted (Angewandte Chemie)*
- [Vladimir Bondar](#), Bidhan Barua, and Lark Perez, “Synthesis of Novel Linkers for Ionizable Nanoparticles”, Summer Undergraduate Poster Session, Rowan University, July 2024

AWARDS

- US National Chemistry Olympiad - National Level, 2024
- 2nd Place Overall – Lockheed Martin - CodeQuest, 2024
- 2nd Place Overall – Widener University Programming Competition, 2024

TECHNICAL SKILLS

Programming Languages	Java, Python, R
Operating Systems	Windows, Linux
Programs	OriginLab, Office, Fusion 360
Tools	Git, Bash, \LaTeX
Languages	English, Russian (Native), Spanish (B2)