Nicholas Underwood

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Education

University of Wisconsin - Madison	*Madison, WI*
BS in Math and Computer Science, 4.0 GPA	August 2021 - Present
University of California, Berkeley	*Berkeley, CA*
4.0 GPA: Summer Courses	June 2018 - August 2020
Berkeley High School	*Berkeley, CA*
4.21 weighted GPA	September 2017 - June 2021

Experience

Wisconsin Robotics — *Software Lead* — *Madison, WI* — August 2021 - Present
- Leading, teaching, and managing a team of 25 undergraduate programming students
- Overseeing development and integration of large scale projects
- Developing heuristic inverse kinematics project for a kinetically redundant, seven-axis arm
- Working independently on a LIDAR mapping algorithm for autonomous navigation

iD Tech — *Instructor* — *Berkeley, CA* — June 2022 - August 2022
- Taught week long boot camps in java, python, and robotics for high school students
- Traveled to Universities across the country to teach overnight programs

Camp Galileo — *Camp Counselor* — *Alameda, CA* — May 2019 - August 2021
- Managed and taught with groups of kids aged 4-16
- Led projects ranging from arts and crafts to full-blown woodworking projects

Claremont Country Club — *Shop Assistant, Junior Tennis Coach* — *Piedmont, WI* — May 2019 - August 2021
- Handled transactions, assisted members, and restrung rackets in the club's tennis shop.
- Led kids through games, drills, and matches

FIRST Robotics Team 5419 — *Controls Lead* — *Madison, WI* — August 2021 - Present
- Led, managed and delegated tasks to the programming team
- Established programming workflows and a robotics curriculum for incoming team members
- Competed in the World Championship in Houston, Texas in 2017, 2018, and 2019

Technical Skills

Programming	Kotlin, C++, Python, Java, and Javascript
DevOps	Git, Unix, CMake, gradle
Web Development	Node, React, Electron, and SQL
Robotics	ROS, MoveIt, rViz, Gazebo, NumPy, and open-cv
AutoCAD	Solidworks and Onshape
Mathmatics	Linear algebra, multivariable calculus, and ODEs

Awards and Honors

April 2019	**FIRST Robotics Innovation in Controls Award**
June 2019, 2020, 2021	**AP Scholar with Distinction**
May 2018, 2019, 2021	**Scholar-Athlete**