

Nolan Peterson

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Education

Arizona State University

Graduate May 2029

Freshman

Major: Computer Systems Engineering

Eden Prairie High School

Graduate June 2025

GPA: 3.7/4.0

Specialized Courses: IOS Development, Advanced IOS Development, AP Computer Science A, Intro to Aircraft & Spacecraft, Aeronautics: Unmanned, Aeronautics Capstone

Senior Intern Program · Student

September 2024 - June 2025

Eden Prairie High School

Network with professionals, explore multiple career paths and identify opportunities, conduct informational interviews to learn from industry experts, develop professional skills for career readiness

Experience

ValleyFair Amusement Park · Area Supervisor

May 2022 - August 2025

Shakopee, Minnesota

Supervise shift associates, manage guest services, resolve conflicts and enhancing guest satisfaction, mentored and trained new employees, provide customer service, resolve conflicts, communicate across departments

Robotics · Lead

September 2021 - May 2025

Eden Prairie High School

Lead meetings and supervise team, follow robot design process, promote STEM in the Community through demonstrations, collaborate with professional adult mentors, competed in World tournament

Projects

FRCRS – Rust FRC Framework

Robotics / Library

Rust, C/C++, Java, FFI, Embedded

Rust framework providing safe and performant abstractions over WPILib for real-time robotics control. Integrated Rust, C/C++, and Java via FFI to support RoboRIO hardware and CAN Bus communication.

RobotCode 2025 - FRC Competition Robot

Robotics / Application

Rust, Embedded, Efficient

Led development of complete robot code in Rust with autonomous routines, teleop, and subsystem management. Only FRC team in 2025 running competition robot code fully in Rust.

Raytracer

Software / Application

Rust

A raytracing engine that renders 3D scenes with support for materials, lighting, reflections, and camera controls. Focused on implementing core computer graphics techniques from scratch.

StrengthsFinder

Analytical · Restorative · Futuristic · Arranger · Responsibility

MBTI

Extraverted · Intuitive · Thinking · Judging