Nathan Kiesman

Visual Portfolio: nkizz.com
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Education

Marshwood High School, South Berwick, Maine
Dartmouth College, Microprocessors in Engineered Systems (ENGS 62)
University of Maine, Microeconomics (ECO 120)
University of Maine, Macroeconomics (ECO 121)
Lakes Region High School, Computer Science (AP4ALL)

Experience

Spin Analytical Summer 2017-Present
Created control and data processing application for protein mobility analytical centrifuges
Lowered cost and increased efficiency by redesigning a constant current DC power supply
Increased accuracy of protein mobility analysis by creating an optical rotor alignment tool

Permit Log February 2017-Present
Won first place in the Maine App Challenge and was awarded a $6000 scholarship
Worked on a team of three to develop "Permit Log" to help teen drivers track their driving
Filmed and edited a four minute advertising video - nkizz.com
Supporting more than 2200 active users, and expanding to an iOS version

Class Act January 2018-April 2018
Won third place in the Maine App Challenge and was awarded a $1000 scholarship
Worked on a team of two to develop “Class Act”, a suite of tools to help high schoolers
Designed the user interface, and created an advertising video - nkizz.com

Independent Projects - nkizz.com
Restored and internet enabled a Teletype
Redesigned a weather station interface
Converted a rotary phone to a cell phone
Restored and internet enabled a jukebox

Membership

National Honor Society
Co-President of Marshwood Coding Club
Marshwood Math Team
Cyberpatriot on Team Redundancy Team
ESP/MIT Splash 2015-2018
Port City Makerspace, Portsmouth, NH
Tri-M Music Honor Society Historian
Senior Class Historian
Marshwood Gender and Sexuality Alliance
Counselor for Brain Explosion Art Summer Camp
UNH Young Philosophers Conference (three years)
Wheaton Whealead Conference

Awards

Freshman Science Student of the Year
Math Team (6th place team in Maine)
Cyberpatriots (1st in Maine, 36th worldwide)
Maintained Honors or High Honors 2015-2018
Music Department Outstanding Achievement

Skills

C, C++, Qt, Java, Python, Bash, Desktop Administration (Windows, MacOS, Linux/BSD), Arduino, Teensy, Raspberry Pi, ESP32, STM32F4, Analog and digital electronics design, PCB design and manufacturing, Final Cut Pro X and EAGLE