

Nicolas Blanchard

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EDUCATION

The University of Arizona, Honors College, Colleges of Engineering and Science

Bachelor of Science in Engineering

Expected May 2023

- Major: Electrical and Computer Engineering
- Minor: Data Science and Statistics
- GPA: 4.0

High School Diploma, Canyon del Oro High School, Oro Valley, Arizona

May 2019

- Seals of Excellence in Mathematics, Science, Social Studies, Spanish, and English

Recognition

- National Merit Commended Scholar *September 2018*
- Raytheon National Merit Scholar *Fall 2019-Present*
- Wildcat Distinction Scholarship *Fall 2019-Present*
- Academic Year Highest Academic Distinction *Spring 2020*

EXPERIENCE

Arizona Space Grant ASCEND

Fall/Spring 2021

- Collaborated to design a custom satellite payload to experimentally test the effectiveness of different materials in radiation shielding, while obeying size, weight, and material restraints
- Focused on designing a PCB to accommodate all electrical components
- Used I2C and SPI to communicate between sensors and a microcontroller

Programming / Electronics Projects

Fall 2020-Present

- Created nickyblanch.xyz - HTML, CSS, JavaScript, PHP, and MySQL experience
- Arduino, ESP, C++, Python, and hardware projects at (www.nickyblanch.xyz/projects.html)
- Hardware projects focus on: circuit prototyping, PCB design, working with ICs
- Software projects focus on: HTTPS, MySQL, working with APIs

Instructor of Songahm Taekwondo, 3rd Degree Black Belt

April 2015-August 2020

- Managed, controlled, structured, and taught classes of up to 30 students at ATSK
- Led classes at Taekwondo school programs working as a team with another instructor

TECHNOLOGIES, SKILLS, AND INTERESTS

Hardware: Digital communication (I2C/SPI), schematic/PCB design, op amps, microcontrollers

Languages: Verilog, C, C++, Python, MATLAB, GnuPlot, R, learning HTML/CSS/JavaScript/PHP

Software: Excel, Visual Studio, SolidWorks, Autodesk Eagle, Autodesk Fusion 360, Vivado, Fritzing

Interests: Officer in the UArizona SEDS chapter, Arduino projects, PC building, fishing, rock climbing