# Nicholas Schwankl

A lifelong learner, maker, and edutainer focused on making design and technological literacy accessible to everyone. Experienced in CAD, low-cost prototyping, and physical computing.

## Education

2017 - 2021

**BSc. Technology, Engineering and Design Education**  
*NC State University (Raleigh)*

Licensure Concentration / GPA - 3.89

## Experience

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| **Student Teacher /** *Riverside High School, Durham, NC* | **January 2021 - April 2021** |

* Responsible for 2 sessions of Computer Integrated Manufacturing and a session of Aerospace Engineering
* Worked closely with cooperating teacher to develop and adapt resources for remote learning setting
* Provided informative presentations and “hands on” activities, as well as additional support to students who required extra guidance

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| **Makerspace Student Assistant /** *DH Hill Library, Raleigh, NC* | **August 2017 - December 2020** |

* Taught proper use of 3D printers, sewing equipment, and other fabrication tools
* Instructed patrons in 2D and 3D design software
* Assisted patrons with project design, fabrication techniques, and concept research & development
* Constructed, repaired, and maintained fabrication equipment
* Designed demos, projects, and guides for the space

## Skills

Certifications

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| **edTPA /** Technology and Engineering Education | **Score:** 51 |
| **PRAXIS /** Technology Education (5051) | **Score:** 200 |
| **SolidWorks /** Certified SolidWorks Associate - Mechanical Design |

Content Familiarity

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| Electronics, Physical Computing, Robotics | ◼◼◼◼◼ |
| CAD, 3D Design, Mechanical Drafting | ◼◼◼◼◼ |
| Fabrication, Prototyping, Engineering Design | ◼◼◼◼◼ |
| Programming, Computer Science | ◼◼◼◼◻ |
| Graphic Design, Desktop Publishing | ◼◼◼◻◻ |
| Photography, Cinematography, Special FX | ◼◼◼◻◻ |
| Networking, Security | ◼◼◻◻◻ |
| Aerospace Engineering | ◼◼◻◻◻ |
| eTextiles, Wearables | ◼◻◻◻◻ |

Software

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| Programming | **Arduino (C++)**, **Scratch-like**, HTML, CSS, Python, Javascript, Java |
| CAD | **Fusion 360**, **SolidWorks**, OnShape, KiCAD, Blender |
| Image Editing | **Photoshop**, **Illustrator**, InkScape, GIMP |
| Audio Editing | **Audition**, **Audacity**, FL Studio |
| Video Editing | **After Effects**, **OBS Studio**, Premiere Pro |
| Document Editing | **Google Docs**, MS Word, MS PowerPoint, InDesign |

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