

# Nicholas Schwankl

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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.

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## Education

**2017 - 2021**      **BSc. Technology, Engineering and Design Education**  
*NC State University (Raleigh)*  
Licensure Concentration / GPA - 3.89

## Experience

**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

**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

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

**Content Familiarity**

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

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

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