

Ariane Schoenwiesner

Boston, MA

Cell: 973-715-9351

arianechriss@gmail.com

<https://www.ariane-schoenwiesner.com/>

[linkedin.com/in/ariane-schoenwiesner](https://www.linkedin.com/in/ariane-schoenwiesner)

New York University

Tandon School of Engineering

B.S. Computer Engineering

January 2022

Dual Citizen - USA & Germany

Experience

Rapid Liquid Print Co., Boston, MA

Winter 2021 – Present

Controls and Systems Engineer

- Designed extruder system for silicone gel suspension additive manufacturing
- Integrated new material flow control algorithms into C++ firmware
- Developed a postprocessor in Python and C# to translate toolpath geometry into gcode
- Built CNC machine interfaces/HMIs using Javascript/Vue and Siemens TIA Portal
- Developed requirements for and worked with external contractors to design and build a CNC control box
- Machined metal and plastic components on lathe and manual mill for 3d printer extruder assembly
- Configured electrical control systems for a CNC machine
- Managed documentation and training for operating a machine for a new type of manufacturing

Ocean Discovery League, (remote)

Winter 2022 – Summer 2024

Sensors and Systems Development Volunteer

- Programmed frontend (Javascript and HTML) and backend (Python, FastAPI) server for modular underwater sensor system
- Modeled and fabricated modifications to existing underwater sensor system enclosure

IBM Research, Yorktown Heights, NY (remote)

Summer 2020

Quantum Intern

- Developed puzzle game for teaching microwave pulse quantum state manipulation in Qiskit (Python)
- Measured results of experiments on IBM quantum systems using Jupyter Notebook and Anvil
- Built user interface for defining microwave pulses using Qiskit OpenPulse

NYU Tandon MakerSpace, Brooklyn

Summer 2018 – Summer 2021

Equipment/Innovation Lead

- Evaluated potential equipment improvement benefits
- Developed standardized projects for advanced users on online instructional platforms
- Tested prospective equipment and fabrication techniques
- Facilitated design thinking and specialized fabrication workshops

Skills

Prototyping

- Additive manufacturing
- Laser cutting
- WaterJet cutting
- PCB fabrication & soldering
- CAM & CNC operation
- Manual mill & lathe

Software

- Fusion 360 CAD & CAM
- Autodesk Eagle
- SolidWorks
- Siemens TIA Portal
- Microsoft Visual Studio
- Github
- KiCAD
- Adobe Photoshop & Illustrator

Languages

- Python
 - Framework - FastAPI
- C++
- Javascript/HTML
 - Library - Vue
- C#
- Arduino
- Pure Data (audio visual scripting)