

# Ariane Schoenwiesner

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New York University  
Tandon School of Engineering  
B.S. Computer Engineering  
August 2021

## Experience

### IBM Research, Yorktown Heights, NY (remote)

Summer 2020

#### Quantum Intern

- Develop puzzle game for teaching microwave pulse quantum state manipulation in Qiskit
- Measure results of experiments on IBM quantum systems using Jupyter Notebook
- Attend IBM Intern Quantum Summer School

### NYU Tandon MakerSpace, Brooklyn, NY

Summer 2018 – Present

#### Equipment/Innovation Lead

- Evaluate potential equipment improvement benefits
- Develop standardized projects for advanced users on online instructional platforms
- Test prospective equipment and fabrication techniques
- Facilitate design thinking and specialized fabrication workshops

#### Training and Development Team Lead

- Develop guidelines for basic use trainings and machine troubleshooting
- Provide prototyping and fabrication guidance for students and faculty

### Bloomberg LP/NYU Center for Quantum Phenomena, New York, NY

Summer 2019

#### Summer Quantum Computing Intern

- Configured experiments in Python using IBM Quantum Experience
- Manufactured laboratory experiment components using waterjet cutter
- Observed nanoelectronics cleanroom fabrication protocol

### Andy Cavatorta Studios, Brooklyn, NY

Summer 2021

#### CNC Operator/CAD Designer

- Ran Shapeoko CNC machine cuts
- Designed parts for multiplayer pinball machine

## Skills

### Prototyping

- FDM/FFF, resin 3D printing
- Laser cutting
- WARDJet WaterJet cutting
- PCB fabrication
- CAM and CNC
- Mold construction
- Carbon & glass fiber fabrication
- Injection Molding

### Software

- Fusion 360
- Autodesk Eagle
- SolidWorks
- AutoDesk Maya
- Aspire CAM
- Adobe Photoshop & Illustrator

### Languages

- Python
- C++
- Verilog
- Pure Data

## Projects

- Impossible Amplifier** - programmable Raspberry Pi guitar amplifier with MIDI inputs    Spring 2021 – Present
- Injection Molded ID Case** - MakerSpace Sustainability Team ID card holder from recycled PLA filament    Spring 2021 - Present
- Qiskit Pulse Puzzle** - educational game for teaching microwave pulse quantum computer programming    Summer 2020
- brian** - signal processing smart guitar, senior design project/NYU Prototyping Fund participant    Fall 2019 – Present
- Climate Clock** - March for Science NYC climate change awareness clock exhibit, Fabrication Lead    Spring 2020 – Spring 2021
- SpaceX Hyperloop Competition** - top 5% of teams, NYU Magnetic Levitation Lead    Fall 2018 – Fall 2019
- NYU Soft Robotics** - mechanical electroadhesive gripper, Project Manager    Fall 2018 – Spring 2018
- Shabani Lab** - Helmholtz mechanical bloch sphere simulator, Fabrication Engineer    Summer 2019