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# Andrew Viola

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**Portfolio:**
andrew.viola.dev

## Education

**Intended B.S. Computer Engineering** - *Virginia Tech* | Expected May 2025, Blacksburg, VA

- GPA: 3.26/4.0

**High School Diploma** - Monroe Township High School | June 2021, Monroe Township, NJ

## Personal Projects

**Sand Coffee Table** - May 2022

- Developed an XY gantry that moved a magnet around using 3D printing firmware
- Attached the gantry to a “sandbox” that held a metal ball, covered by a glass surface
- Giving the 3D printing firmware commands, the magnet would move the ball around, creating pictures in the sand

**Fully Functional Iron Man Helmet** - April 2021

- 3D printed an electronic Iron Man helmet with light up eyes and articulating face plate
- Programmed an Arduino to control LEDs and servos which lifted the face plate

**Electric Bike** - May 2019

- Removed the chain system and brakes from a bike in order to attach a mid-drive motor
- Attached and spliced e-brakes to cut off motor when braking
- Utilized a 48v battery to run the motor and screen

## Experiences

**Studio Technician** *Virginia Tech* | August 2022 - Present

- Created data collection techniques and structures to improve the makerspace
- Improved the space by fixing machinery and tools, while setting up new machines
- Work with students to help create and realize their personal and education projects

**Upper-Class Leader and Mentor** *Virginia Tech* | August 2022 - Present

- Worked within a committee to train students how to use tools in a makerspace
- Mentored a group of 13 freshmen, giving advice about their first year of college

**Student Engineering Council “Big Contribution Application”** *Virginia Tech* | March 2022

- Developed and wrote a proposal to improve 3D printing at a VT makerspace
- Presented the proposal in front of a board of directors and assembly, where it was awarded $3600

## Skills

CAD | Circuit Design | Verilog | 3D Printing | EAGLE | MATLAB | Linux | Docker | C++