

# Matthew McClain, E.I.T.

Exploring the intersection of design, art, and engineering

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Former **Lead Creative Technologist** at Hatch Escapes.

**Author** of *Arduino For Artists*, an Arduino how-to book for creative people.

**Designer** of the **Robotics Crash Course** and **Interactive Art** curricula.

|..... experience() {

## **Lead Creative Technologist**

*January 2023 – June 2024*

*Hatch Escapes (Los Angeles, CA)*

- Led the technical installation of a complex immersive theater role-playing game/escape room hybrid
- Custom-built a multimedia cueing system in TouchDesigner supporting branching story outcomes
- Programmed and wired interactive props and games with Raspberry Pi, Arduino, and ESP32 boards
- Implemented IoT network architecture using MQTT, TouchDesigner, MySQL and Node-RED

## **Product Engineering Co-Op**

*August 2019 – April 2020*

*Crayola LLC (Easton, PA)*

- Collaborated with designers and engineers to develop effective solutions to product design problems
- Modeled and 3D printed prototypes using Solidworks and SLA/FDM 3D printers
- Designed custom parts to aid speculative product development

## **Summer Program S.T.E.A.M. Department Chair**

*April – July 2018*

*Academy of Creative Education, Oakwood School (North Hollywood, CA)*

- Designed and taught two five-day Arduino curricula to approximately 30 students in grades 7-9
- Interviewed, hired, and managed two TAs for the department
- Managed department budget and purchased supplies

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**skills() {**

- Arduino
- Raspberry Pi
- ESP32
- Node-RED
- IoT
- Solidworks
- Fusion 360
- C/C++/C#
- Java
- Git
- HTML/CSS
- LabView
- TouchDesigner
- Unity
- Photoshop
- Illustrator
- InDesign
- Premiere
- 3D printing
- management
- soldering
- woodworking
- prototyping
- fabrication

**education() {**

- Lehigh University, Bethlehem, PA (*Class of 2021*)
- B.S. in I.D.E.A.S. (*Electrical Engineering & Product Design*)
- Minor in Creative Writing
- Certified Engineer In Training (July 2023)

**honors() {**

- I.D.E.A.S. Honors Program (*Graduated with Honors*)
- Lehigh University Williams Prize (*2018, 2019, 2020*)
- Lehigh University Dean's List (*Spring 2018, Fall 2020*)

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