Matthew McClain

Exploring the intersection of design, art, and engineering

contact() { matthewmcclain.org }

Author of *Arduino For Artists*, an Arduino how-to book for creative people.
Designer of the **Robotics Crash Course** and **Interactive Art** curricula.
3-time **award-winning writer** of fiction and poetry.

experience() {

Senior Escape Room Build Technician　　　　　　　　　　　　　　*January 2023 – Present*
Hatch Escapes (Los Angeles, CA)
- Assisted in the construction of a complex immersive theater role-playing game/escape room hybrid
- Programmed and wired interactive props and games with Raspberry Pi, Arduino, and ESP32 boards
- Implemented IoT network architecture using MQTT, TouchDesigner, OpenSQL 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
- IoT
- Solidworks
- Fusion 360
- C/C++/C#
- Java
- Git
- HTML/CSS
- MATLAB
- LabView
- TouchDesigner
- Unity
- Photoshop
- Illustrator
- InDesign
- Premiere
- 3D printing
- management
- soldering
- woodworking
- prototyping
- fabrication

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education() {

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

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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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