

# Alethea Campbell

c. 413-531-1089 • e. [alethealucia@gmail.com](mailto:alethealucia@gmail.com) • w. [www.aletheacampbell.com](http://www.aletheacampbell.com)

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## Education

### Fab Academy Diploma

Expected July 2024

*Fab Academy, Boston, MA*

### Ed.M. in Technology, Innovation, and Education

May 2017

*Harvard Graduate School of Education (HGSE), Cambridge, MA*

### B.A. in Psychology with a minor in Education & Child Study

May 2009

*Smith College, Northampton, MA*

## Digital Fabrication and Making Skills

Basic, *Advance\**, *Expert\*\**

### Processes & Tools

- *Vinyl Cutting\**
- *Laser Cutting\*\**
- *3D Printing\**
- CNC Routers: Mini-Mill; Large Router
- Electronics Production
- ***Photography: Analog\*\* and digital\*\****

### Software

- *Adobe Photoshop\**
- *Adobe Illustrator\**
- *Adobe InDesign\**
- *Inkscape\**
- *CorelDraw\**
- *Tinkercad\**
- *Fusion 360\*\**
- *Rhino*
- *Solidworks*
- *Adobe Captivate*
- *Final Cut Pro*
- *Hubspot CRM*

## Experience

### STEM Educator

Sept 2023 - Present

*MassRobotics, Boston, MA*

### Digital Fabrication & Education Consultant

Jan 2022 - Present

*Self-Employed, Greater Boston, MA*

- Collaborate in orchestrating a virtual International Educators Fab summit twice a year, representative of 13+ countries and 200+ attendees
- Support EduFab's efforts as a Contributor to grow the Fab Academy for Educators program through the summit and ongoing collaborations with international partners.
- Organized and executed a Digital Fabrication Education Event at Wetherbee School in Lawrence, MA during Summer 2022.

### Program Coordinator for the Science Festival Alliance & Cambridge Science Festival

Oct 2022 - Aug 2023

*MIT Museum (MITM), Cambridge, MA*

- Facilitate national involvement of the Science Festival Alliance, an 88-member alliance of science festival producers across the United States and Canada, supporting members in producing festivals ranging widely in scale, scope, and capacity.
- Orchestrate program development and event production at the intersection of art and science with the Museum, Alliance, and Cambridge Science Festival, recently programming MITM After Dark events, a

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600+ person attendance engaging speakers, food vendors, and artists to support monthly adults-only, an after-hours event at the museum.

## Senior Manager of Relationships, Outreach, and Education Operations

Jan 2021 - Dec 2021

### *Fab Foundation, Boston, MA*

- Spearheaded the development and execution of a COVID-19 response strategy for the K-12 Fab Labs, transitioning over 150 students and 5+ educators from in-person to virtual programming. Coordinated the safe delivery of equipment and materials to teachers' homes to ensure continuity of hands-on learning of digital fabrication tools and processes in a K-12 space. Developed and implemented protocols for virtual learning that ensured equitable access to digital fabrication tools and supported the effective delivery of remote programming. Monitored student and educator engagement and provided ongoing support to ensure the success of virtual learning initiatives.
- Deployed and designed communications materials, including content and graphics for the Fab Foundation's Education quarterly newsletter and various other materials such as grants and publications, in order to effectively promote the program's mission and achievements to stakeholders and partners.
- Monitored program metrics and tracked, synthesized, and reported data using pivot tables related to the projects, in order to effectively evaluate and communicate the impact of the program to stakeholders and partners through End of Year Reports and grant applications.
- Designed, evaluated, and implemented Teacher Professional Development programs (remote, hybrid, and in-person) aligned to MA State, NGSS, and Common Core Standards and successfully gained Massachusetts State accreditation for Educators to receive Professional Development Points to improve the quality of education and ensure the program's goals are aligned with state and national standards.

## Program Manager, GE Brilliant Career Lab Programs

Jun 2017 - Dec 2020

### *Fab Foundation, Boston, MA*

- Fostered a global community of Fab Labs by engaging and supporting K-12 educators in a network of over 1,800 Fab Labs across more than 100 countries. Created access to shared workspaces, provided explicit support to educators through the SCOPES-df online learning community, and organized in-person conferences to promote collaboration and exchange of best practices.
- Led a three-person team and managed the logistics of bringing two mobile Fab Labs (18-foot trailers) to large-scale events with GE and the Boston Celtics, providing tools and resources to over 56 locations, including festivals and public schools in MA and beyond. Trained students and educators on how to apply STEM technologies in formal and informal classrooms to foster hands-on learning experiences. Coordinated with event organizers, educators, and stakeholders to ensure effective program implementation of the mobile fab lab program, maintaining equipment quarterly with service updates, and servicing equipment when needed.
- Developed and maintained the growth of the mobile fab lab program, working with 30 groups concurrently to reach 41 individual schools, 6,151 students, and 147 educators. Trained and supported educators in using digital fabrication in their classrooms to foster student engagement and hands-on learning experiences. Coordinated with stakeholders to ensure effective implementation of the program and maintained relationships with partner schools and organizations to sustain long-term growth.
- Cultivated new relationships in the Boston maker community and supported community members by coordinating the leasing and delivery of 3D printers and laser cutters at no cost. Supported the creation of 17,500 units of emergency PPE produced during the COVID-19 pandemic. Coordinated with community members and stakeholders to ensure the effective use of digital fabrication tools to produce PPE and other materials to address community needs. Maintained relationships with community members and organizations to sustain long-term partnerships and collaborations.

## Formal & Informal Teaching Experience

Teaching Fellow

*Harvard Graduate School of Education, Cambridge, MA*

August 2013 - May 2021

Jan 2018 - May 2021

STEAM Teacher

*The Umbrella Community Arts Center, Concord, MA*

Aug 2016 - Jun 2017

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Lead Teacher Jun 2016 - Aug 2016  
*Circuit Lab, Greater Boston Area, MA*

Associate 6<sup>th</sup> Grade Teacher Aug 2014 - July 2016  
*Seven Arrows Elementary School, Pacific Palisades, CA*

**Staff Assistant III** Aug 2011 - Jul 2013  
*Harvard Graduate School of Arts & Sciences, Cambridge, MA*

- Formulated and maintained digital databases to efficiently organize vendor transactions and manage faculty/department attendance during events such as orientation and commencement.
- Managed the budget for the Student Services and Facilities department in GSAS, ensuring financial resources were allocated effectively to support various student and faculty initiatives.
- Steered the GSAS Resident Advisor Application redesign by creating an electronic document using Adobe Acrobat, improving the application process and making it more user-friendly for applicants and staff.
- Trained and mentored new incoming employees by providing guidance and tools to enable them to become autonomous in their roles and achieve their full potential.

**Family Room Specialist** Mar 2011 - Aug 2011  
**Workshop Specialist** Oct 2009 - Feb 2011

*Apple - Retail, Boston, MA*

- Designed assistive technology workshops implemented company-wide, including training on assistive technology features for those blind and deaf/hard of hearing,
- Lead group discussions to aid in creating a group culture of solving problems during new hire training
- Serviced Apple mobile devices, while mediating challenging customer service situations,
- Delivered training and sales in sign language to those who are deaf/hard of hearing or benefit from communicating using sign language.

## Speaking Engagements

**Campbell, A.** & Mullaney, A. (2020, July). *(Virtual) Fab Lab Instruction in (Virtual) Schools: A Mobile Fab Lab Response to COVID-19*. Speaker presentation session at the annual International Fab Lab Conference - [FabX](#), Virtual Conference.

**Campbell, A.**, Gabaree, L., & Osiecki K. (2019, October). *Beyond Screens: Creating With Multi-Sensory Technologies in the Classroom*. Workshop session at the annual [Connected Learning Summit 2019](#), Irvine, CA.

**Campbell, A.**, Mullaney, A., & Purvis B. (2018, July). *The GE Brilliant Career Labs Portfolio: Learn how digital fabrication coupled with careers can be catalysts for igniting curiosity in the classroom*. Speaker presentation session at the annual International Fab Lab Conference - [Fab 14](#), Toulouse, France.

Gaskins, N., & **Campbell, A.** (2018, July). *Learn how to connect digital fabrication to the primary interests of youth and get them hooked on Fab*. Workshop session at the annual International Fab Lab Conference - [Fab 14](#), Toulouse, France.

## Community Leadership Experience

**Board Member** Dec 2019 - Dec 2021  
*Digital Ready, Boston, MA*

**Board Member** Sept 2018 - Jun 2019  
*Another Course to College, Boston, MA*

**Alumnae Interviewer Smith College Club of Los Angeles** Oct 2014 - Aug 2016  
*Smith College Club of Los Angeles, Los Angeles, CA*