

# Daniel Micah Bergey

1343 S. 52<sup>nd</sup> St. Apt. 1  
Philadelphia, PA 19143

bergey@teallabs.org  
617 · 800 · 4397

## Experience

### FRIENDS CENTRAL

CS Teacher

WYNNEWOOD, PA

2015-present

- Designed & taught two project-based computer science classes for grades 10-12
- CS1 - web programming - HTML, Javascript, functions, arrays, objects, loops
- CS2 - software engineering tools - polymorphism, HOFs, inheritance, git, Haskell, Java

### DIAGRAMS

[HTTP://PROJECTS.HASKELL.ORG/DIAGRAMS](http://projects.haskell.org/diagrams)

Maintainer

2013-present

- Contributed path interpolation algorithms, Harfbuzz text layout, and 3D primitives
- Wrote backends for reactive SVG, HTML Canvas, and OpenSCAD
- Supervised releases to Hackage (Haskell package server)
- Supervised an undergraduate intern through Google Summer of Code

### THE HACKTORY

Instructor & Volunteer

PHILADELPHIA, PA

2012-present

- Developed curriculum for and taught 10-week middle school class *How Things Work*
- Taught 11-week elementary school Python class
- Taught adults Python data visualization, sewable circuits, Scratch, Raspberry Pi, Linux CLI

### BUILDING SCIENCE CORPORATION

Engineer

SOMERVILLE, MA

2008–2013

- Designed & executed field study on distribution effectiveness of single-point heating
- Wrote Python and Fortran code for HVAC simulations as part of ASHRAE RP-1449
- Analyzed sensor data on thermal distribution and moisture removal (~5 years & ~2 million lines)
- Recommended design parameters for net zero energy homes, including NIST test facility
- Sized residential HVAC systems and designed duct layouts for builders from Louisiana to Maine

## Education

### MASSACHUSETTS INSTITUTE OF TECHNOLOGY

Bachelor of Science in Art and Design

CAMBRIDGE, MA

2008

- Studies emphasized sustainability and energy in buildings

## Skills

Programming	C, Fortran, Haskell, Java, Javascript, Lisp, Perl, Python
Software	CSS, HTML, Linux, SQL, git, Nix
Mechanical	Hand Forging, Machining, Welding, Wood Joinery
Languages	Hebrew, Hindi