

Objective:

Self-driven computer science and robotics teacher seeking to transition to computer programmer role with dynamic company in the Boston area.

Work History--Last 8 Years

2011-Present

Teacher, Computer Science and Robotics

St. Mark's School, Southborough MA

- Develop and teach classes in: Java, Swift, HTML/CSS/ Javascript/JQuery (for front-end), Python and C (using ROOMBA Robots and Vex Systems) programming languages and Arduino/Raspberry Pi (for Electronics and DIY courses).
- Prepare students for AP CS Exam, following Approved AP CS curriculum and additional advanced programming topics.
- Mentor/Teacher, FIRST Robotics FRC Team 3566 ("Gone Fishin"). Team earned national championship bids 2012 and 2015. Shop work (as Mentor and Teacher)--Aluminum cutting and milling. Experience with lathe and metal bending.
- Teach/Use CAD Tools, including Autodesk and OnShape. Work in SM "Fab Lab" with laser cutter (using Adobe Illustrator), CNC carver and 3D printers.
- Mentor/Teacher FLL Team "Can of Worms". Work with young students, on FIRST LEGO League (FLL) challenges. Team invited to MA final in 2017.
- STEM Steering Committee (2011-2015). Work with school administrators to implement project-based STEM teaching. Also, STEM Building Committee (2014-2015).

2017-Present (part-time)

Code Coach

theCoderSchool, Natick, MA

- Develop and teach lessons in CS programming and DIY for children in one-on-one and multi-student classes. Create lessons for Python, Java, AP Computer Science Review, C++, Scratch, HTML/CSS/Javascript. Also Arduino, Google AIY Voice, Raspberry Pi and DIY electronics.

2014-2017 (summers)

Camp Instructor

i2Camp, Roxbury Latin School, MA (and other locations)

- Prepared and taught lessons in MatLab Programming, Rocketry, BOSE Sound Mechanics, robotics and mechanical constructions at STEM camp for students (ages 8-12). Worked with i2 lesson planners to develop and improve courses.

Work History--Further Back

2008-2011

Associate Attorney

Pearl Cohen Zedek Latzer, New York, NY

- Managed prior art searches to invalidate patents and defend client in patent infringement case re simulation technology. Prepared patent applications and USPTO responses in computer technology areas, such as processor execution, networking and in-vivo imaging.

2005-2008

Contract Attorney

Freelance Legal Work, DeNovo Legal & Other Agencies, New York, NY

- Litigation and document review work for NYC law firms. Provided rapid turn-around on assignments and accurate work in different litigation settings.

1999-2005

CS Teacher

Saint Ann's School, Brooklyn, NY

- Prepared and taught computer concepts (Java programming, Scratch and HTML/CSS) as well as Flash, Photoshop and other desktop publishing apps to students (grades 3 and 5-12).

2004

Web Page Editor

FT Technologies, New York, NY

- Created/revised course unit pages for online securities training course. (Part-time)

1995-1999

and 1989-1991

Associate Attorney

Kenyon & Kenyon, New York, NY

- Handled IP licensing of computer software inventions and artistic works. Appraised clients of potential risks and costs. Drafted patent applications and prepared USPTO office action responses for computer software inventions, such as computer image processing and model generation systems.

1991-1995

Associate Attorney

Vetter & White, Providence, RI

- Attorney at firm specializing in defense litigation. RI Bar Assoc. writing award, 1995.

1989 Term

Law Clerk

New Jersey Supreme Court, NJ

- Clerk to Justice Robert L. Clifford. Aided Justice Clifford in the preparation of his opinions.

Education**Dartmouth College**

- 1985, Bachelor of Arts, with Honors in Computer Science.

University of Pittsburgh School of Law

- 1988, Juris Doctorate (ASCAP writing prize).

Rhode Island School of Design

- 1995, Bachelor of Fine Arts (European Honors Program).

City College of New York

- 2010-11, Physics courses (Zamensky Physics Prize).

Firehose Project

- 2016, Ruby on Rails training.

Christopher Roche

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Relevant Skills**Programming**

- Python
- Java
- C++
- C
- HTML/CSS/Javascript
- JQuery
- Matlab
- Ruby
- Swift

CAD (3D)

- OnShape
- Autodesk
- SketchUp

2D Design

- Photoshop
- Illustrator
- inkScape

Circuits

- SPICE
- TinkerCAD Circuits