KATHRYN R. DIPIPPO

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Github: **github.com/pepper-wood**

EDUCATION

RENSSELAER POLYTECHNIC INSTITUTE   Expected Graduation: 5/2017
B.S. Computer Science, Minor in Studio Arts
Technical skills: Python, [C#, ASP .NET, MVC4], [HTML, JavaScript, CSS], SQL, Java, C++, Object-Oriented Programming, PaintTool SAI, Photoshop, GIMP, and Microsoft Office programs (Word, Excel, and PowerPoint)

WORK EXPERIENCE

SUMMER 2016, TALLAN SUMMER SOFTWARE CONSULTANT INTERNSHIP, BOSTON, MA
Tallan provides technology and business process consulting services to enterprise and mid-sized companies
- Designed and implemented a layout customization feature in their Virtual Tour internal program, which will be deployed to various clients such as the Massachusetts Legislature and Delaware Legislature
- Assisted in updating the Sessions, Hearings, and Special Events Video database at the Massachusetts State House

SUMMER 2014 AND 2015, MID-INFRARED TECHNOLOGIES FOR HEALTH AND THE ENVIRONMENT (MIRTHE) INTERNSHIP
Intern at Professor Claire Gmachl's optical laser laboratory at Princeton University
- 2014: Designed and Implemented Graphical User Interface (GUI) and performed statistical analyses using MatLab; Presented abstract and poster entitled *"Internal Mobilization of in vivo Glucose Sensing System"* at MIRTHE Summer Workshop Conference
- 2015: Redesigned and presented Python GUI to be used at clinical trials in diabetic facilities in 2015; presented abstract and poster entitled *"Python and GUI Implementation for Internal Optimization and Increased Usability of in vivo Glucose Sensing System"* in 2015. MIRTHE is an NSF Engineering Research Center at Princeton University and five partner universities

FALL 2015, SPRING 2016, COMPUTER SCIENCE 1 MENTOR
Assisted two 2-hour lab & office hour periods for Computer Science 1 for four semesters

FALL 2014, CALCULUS 1 MATH MENTOR
Hosted weekly quiz block classes for first year students taking Calculus
- Prepared and lead class for one hour each week; Gave and graded weekly quizzes and homework assignments
- Hosted office hours three times a week to answer calculus questions and offer college advice, 6 hours per week

2011-2013, PRINCETON PUBLIC LIBRARY, *BOOK SHELVER* | 2010-2011, ELEMENTARY FRENCH AND MATH TUTOR

IMPORTANT PROJECTS

Adoptapedia (HTML,CSS,PHP,SQL,JS): Designed and implemented a website that serves as a widely used online resource for artists. It contains a database updated daily as well as allows users to search and post to this resource. Started this project in 2013 with Java and has since been rewritten into C++, Python, and its current form as a website. The application can be found live at adoptapedia.com.

Tiberius the Line Follower (C): Assisted with programming a line following robot dubbed 'Tiberius" using a Pololu sensor and an Arduino microcontroller. He placed first in a competition against other line followers in the Introduction to Engineering Design class, completing the expert course in 19 seconds.

AWARDS AND RECOGNITIONS

2015	WINNER OF GENERICON XXIX COVER ART CONTEST
2015	CODE FOR PRINCETON HACKATHON, 3RD PLACE: See codeforprinceton/ptonCycle on Github for the code's repository
2013	DEAN'S LIST
2013-2017	RENSSELAER LEADERSHIP AWARD
2013	RENSSELAER RE:DESIGN SCHOLARSHIP COMPETITION WINNER
2013	AP SCHOLAR WITH DISTINCTION
2007-2011	GIRL SCOUT BRONZE, SILVER, AND GOLD AWARDS
2010-2012	THE PRESIDENT'S VOLUNTEER SERVICE AWARD: GOLD TIER 2010, SILVER TIER 2011, GOLD TIER 2012
2012	SAINT TIMOTHY AWARD FOR EXCELLENCE IN YOUTH MINISTRY

PROFESSIONAL MEMBERSHIPS AND ASSOCIATIONS

IEEE, Joined Summer 2014 | SOCIETY OF WOMEN ENGINEERS, Joined Fall 2013 | WOMEN'S MENTOR PROGRAM, RPI, Joined Fall 2013

VOLUNTEER EXPERIENCE & EXTRACURRICULAR LEADERSHIP ACTIVITIES

2014-2017	*ARTIST ALLEY COORDINATOR FOR GENERICON,* Anime, Science-Fiction, and Gaming weekend-long Convention at RPI
2015-2017	*SOCIAL CHAIR OF ARDA,* RPI Themed Housing for the RSFA, the Rensselaer science fiction and anime association
2002-2013	*ST. PAUL'S CHURCH, PRINCETON. NJ:* Hand Bell Choir (2002-13); Altar Server (2004-13); Youth Group (2009-13)
2006-2012	*PRINCETON PUBLIC LIBRARY, PRINCETON, NJ:* Summer Reading Program (2006-12); Teen Advisory Board (2010-12)