

ANDREW REHAYEM

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EDUCATION

- 2012 – 2016** **The Cooper Union for the Advancement of Science and Art** **New York, NY**
Bachelor of Engineering, Major: Electrical Engineering; Minor: Mathematics
GPA: 3.6/4.0, Major GPA: 3.8/4.0
- Full Tuition Scholarship
 - **Relevant Coursework:** *Programming Languages, Data Structures and Algorithms (C++), Discrete Mathematics, Digital Logic Design, Computer Architecture, MATLAB, Signal Processing and Systems Analysis, HTML*
 - **Technical Skills:** *C, Python, HTML, CSS, Linux (Ubuntu), Windows 7, AutoCAD, SolidWorks, Patent Law*
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EXPERIENCE

- 2014 - Present** **cooper.edu** **New York, NY**
The Cooper Union, Web Developer
- Modified PHP templates to remove redundancy in page breadcrumbs
 - Manage development and production site hosted on an Apache server, use command line extensively
 - Evaluate site effectiveness and aesthetic, fix bugs and update Drupal modules as necessary
- Summer 2013** **Effortless “Insight” Hand Sanitizer Dispensers** **New York, NY**
Cooper Union Invention Factory, Inventor
- Designed and prototyped a hand sanitizer dispenser optionally triggered to spray on hand engaging a door handle
 - Regularly presented formal design updates to venture capitalists and potential investors
 - Filed a complete U.S. Provisional Patent Application for "Door-Mounted Hand Sanitizer Dispenser" (Application # 61866407), with AutoCAD patent graphics
 - Programmed in Arduino, designed in SolidWorks, and prototyped with Makerbot 3D printer
- Spring 2013** **Battleship** **New York, NY**
Computer Architecture, Programmer
- Programmed classic two player game with ASCII graphics in MIPS assembly language
- Fall 2012** **Guitar Hero** **New York, NY**
Digital Logic Design, Team Member
- Led team of three students to design and construct an interactive one player game with guitar and multiple difficulty levels
 - Plays music on speakers when user strums and frets guitar correctly in time with the game's clock
 - Implemented project with 12 breadboards, 45 CMOS logic chips, ROM, an LED array screen, and 8 speakers, fully documented with circuit, logic, and board diagrams
 - Compiled and finalized the technical report
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LEADERSHIP AND SERVICE

- 2012 – Present** **Electrical Engineering Representative, Class of 2016** **New York, NY**
- Act as liaison between student body and the engineering student council
 - Disseminate important information and gauge student needs
 - Sub-committee member responsible to meet with the Chairman of the Cooper Union Board of Trustees
 - Independently created and led an interdisciplinary committee to draft a formal response to the 2012 tuition announcement
- 2012 – Present** **Services and Extracurricular Activities** **New York, NY**
- **Co-Founder, createatcooper.org, 2012 – Present**
 - Organize logistics, audio-visual needs, and food for events including workshops in Android programming, web development, and Arduino, as well as correspondence with speakers such as Alexis Ohanian, co-founder of Reddit. Coordinated hackCooper, the Cooper Union's first hackathon
 - **Founder and Director, The Cooper Union Cinema Club, 2012 – Present**
 - **Trumpet, The New York Youth Symphony, 2013 – Present**