

# 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 – Computer Engineering*  
**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:** *JavaScript, HTML, CSS, C++, Python, Linux Command Line, Windows 7, AutoCAD, SolidWorks, Patent Law*
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## EXPERIENCE

- 2014 - Present**     **cooper.edu**     **New York, NY**  
**The Cooper Union, Web Developer**
- Modify Drupal PHP templates to improve site aesthetic, display information effectively, and fix bugs
  - Created a Tumblr blog for the Cooper Union Admissions department, using HTML and CSS to add Cooper's custom font and styles to an existing theme, created a custom Google search utility in JavaScript
  - Manage development and production site hosted on an Apache server, use command line extensively
- 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**     **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
- 2012 – 2014**     **Electrical Engineering Representative, Class of 2016**     **New York, NY**
- Act as liaison between students and student council, distribute information and gauge needs of constituency
  - 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