

# David Adrian

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## EDUCATION

### University of Michigan

Ann Arbor, MI

*Bachelors of Science in Engineering, Computer Science Engineering*

Class of 2014

- **GPA:** 3.55/4.00
- **Significant Completed Courses:** C++ Data Structures and Programming, Music Signal Processing, Calculus-based Intermediate Microeconomics, Digital Logic Design, Discrete Math
- **Significant Current Courses:** Algorithms and Data Structures, Introductory Computer Organization, Computational Theory

## RELATED EXPERIENCE

### Whisper Communications Project

Ann Arbor, MI

<http://www.whispercomm.org/manes/>

2011-Present

*Undergraduate Research Assistant*

- Goal of the Whisper project is to build an easy-to-use, infrastructureless, reliable, secure, private communication system
- Targeting ad-hoc wireless networks created on Android phones to bounce messages from a sender to a chosen recipient
- Developing a mobile ad-hoc network emulation system (MANES) for testing feasibility and possible routing protocols using 3G networks and phone-based GPS services
- Uses Google Cloud to Device Messaging framework and a custom RESTful web API secured with OAuth over HTTPS
- MANES Client application will be released in the Android Market upon completion and source code will be posted on Github

### Computer-Aided Engineering Network (CAEN)

Ann Arbor, MI

*Network Technician*

2011 - Present

- Maintain College of Engineering computer network and assist in IP/DNS space supervision
- Transition CAEN printers to management under university Information and Technology Services
- Administer and deploy the over 700 wireless access points that constitute the CAEN Wireless Network
- Update network switch hardware configuration (Cisco, Force10, Juniper) according to faculty and department's needs

## LEADERSHIP EXPERIENCE

### <CSE.Scholars>

Ann Arbor, MI

*AP Scholars Program Chair*

2011 - Present

- Developing a free course for high school students to take in order to prepare for the AP Computer Science exam
- Coordinate and direct four teams that are designing different parts of the course
- Designing and coding web-based autograder to streamline course project grades
- Interface with high schools near Ann Arbor in order to foster course participation among high school students

## SKILLS

- **Programming:** C/C++, Java, Verilog HDL
- **Web Development:** PHP, SQL, Javascript, HTML/CSS, Neo4j Graph Database
- **Linux:** Server administration, Debian-based distributions, SAMBA
- **Data Processing:** MATLAB, Excel, Word