

# Avery B. Dews

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## Education

University of Michigan – April 2016  
College of Literature, Science, and the Arts  
BS, Computer Science & Global Media Studies

## Skills

**Languages:** C++, C, MATLAB, Python,  
HTML, CSS, iOS (Swift)

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## Experience

**Resident Advisor, University of Michigan Student Life**

January 2014 - Present

- Supported 30-50 residents of diverse backgrounds through programming events while addressing and facilitating resolution of any conflicts within the community
- Provided positive customer service experience in the community center and duty rounds

**Academic Facilitator, University of Michigan M-STEM Academies** June 2015 – August 2015

- Developed supplemental and review materials/activities while motivating and advising students to develop effective learning skills for college-level work

**FYE Class Facilitator, University of Michigan Student Life**

January 2015 - March 2015

- Facilitated and engaged a group of first year students to develop integrative learning, goal-setting, and effective communication skills

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## Projects & Relevant Coursework

**EECS 482**

- Implemented core modules of operating systems such as disk schedulers, thread libraries, pagers, and file systems in a team setting
- Emphasized topics include processes and threads, concurrency and synchronization, CPU scheduling, virtual memory and secondary storage management, and distributed systems

**EECS 481**

- Planned and developed a mobile video editing application using the Agile process model in a team environment
- Documented development process through utilization of Universal Modeling Language conventions, including class and sequence diagrams

**EECS 388**

- Emphasized topics include cryptographic functions and network protocols, web, application, and network security, and computer forensics
- Utilized tools such as Wireshark, Aircrack, Nmap, and Autopsy

**EECS 442**

- Implemented basic image processing techniques and high-level problems such as face/object/scene recognition and categorization
- Designed an independent project for traffic sign recognition using a neural network machine learning algorithm and color recognition

**Independent Projects**

- Implemented scale-space blob and edge detection in MATLAB using a Laplacian of Gaussian Filter at several scales
- Developed an image stitching and alignment script using SIFT and RANSAC algorithms in MATLAB