Physical Computing Internship
The Libraries: Digital Scholarship

The Library offers an internship for the summer of 2017 focusing on physical computing and the interaction between physical and digital systems. This may include sensors, electronic controllers, embedded computing, internet-connected devices and other technologies that make the physical world legible to digital systems. While previous experience is not required, this position will appeal to students interested in electronics, programming, and design.

Description

Over the summer, the student will work with librarians in Digital Scholarship to develop devices for interactive exhibits and displays. This may include motion sensors, speech or facial recognition, for example, using Arduino and Raspberry Pi. They will also work with iBeacons (tiny bluetooth transmitters) to configure a mobile application that will direct users to books in the library. Building on student interest, projects may also involve wearable electronics, augmented or virtual reality, 3D modeling, robotics and related technologies.

Oversight

The intern will report to Mike Zarafonetis, Coordinator for Digital Scholarship and Services, and Andy Janco, Digital Scholarship Librarian. Digital Scholarship staff will meet regularly with the student to provide advice and direction.

Qualifications

(Training for some of these will be provided):

- Desire to research and evaluate current developments in physical computing and how they relate to a library setting.
- Ability to think creatively and to test new ideas.
- Some previous experience coding in Python or similar language.
- Familiarity with the basics of circuits and electronics.

Duration & Funding:

- 11 weeks; May 15, 2017 – July 28
- 35 hours per week between 9am and 5pm
- $11.00/ hour

To apply

To apply, please fill out the library's summer internship application form and provide a short statement (500 words or less) describing why you are interested in this internship and why you think it would be a good fit. Please describe any experience you have working with physical computing or digital projects and provide the name of a faculty member who we can contact as a reference. Please submit application and statement to hccirc@haverford.edu or return it to the front desk in Magill.

Applications are due by **February 15**.