

Haley Garrison

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EDUCATION

GEORGIA INSTITUTE OF TECHNOLOGY

GRADUATE COURSEWORK IN COMPUTER SCIENCE

Aug 2015 - Dec 2016 | Atlanta, GA
GPA: 4.0 / 4.0

LAFAYETTE COLLEGE

BS ELECTRICAL AND COMPUTER ENGINEERING/AB INTERNATIONAL STUDIES

Grad. May 2015 | Easton, PA
GPA: 3.98 / 4.0

SKILLS

PROGRAMMING

Java • Python • iOS • Javascript • CSS • HTML • C • C++ • Matlab • Assembly • Verilog • LaTeX

FRAMEWORKS/TOOLS

Bootstrap • JQuery • Angular.js • Express.js • Node.js • MongoDB • SQLite • Yeoman • Grunt • Sass • Git • Qt • Unity3D

OTHER

Vim • Xcode • Eclipse • UNIX

COURSEWORK

GRADUATE

Computer Vision
Artificial Intelligence
Pattern Recognition

UNDERGRADUATE

Software Engineering
Computer Organization
Computer Networks
Digital Circuits I & II
Analysis of Algorithms
Data Structures and Algorithms
Intro to CS (Personal Robotics)

LINKS

Github:// [garrisoh](https://github.com/garrisoh)
LinkedIn:// [haley-garrison](https://www.linkedin.com/in/haley-garrison)

EXPERIENCE

GEORGIA TECH RAIL LAB | GRADUATE RESEARCH ASSISTANT

May 2016 - Dec 2016 | Atlanta, GA

- Worked with Dr. Sonia Chernova and the Robot Autonomy in the Interactive Learning (RAIL) lab to develop a commonsense knowledge network for autonomous robots.
- Created a network generation and probabilistic reasoning engine in Python.

GEORGIA TECH ECE | GRADUATE TEACHING ASSISTANT

Aug 2015 - May 2016 | Atlanta, GA

- Led laboratory sessions, held office hours, and graded lab and project reports for the Digital Design course.
- Held consultations with students in the Undergraduate Professional Communications Program (UPCP) studio to provide advisement and revisions to technical and professional documents.

VOITH HYDRO | AUTOMATION ENGINEERING INTERN

May 2014 - Aug 2014 | York, PA

- Designed software to improve internal efficiency.
- Developed a tool using Excel VBA for organizing project bill of materials.
- Created a simulation program for testing PLC logic.

PROJECTS

UNDERGRADUATE THESIS | APPLICATION OF THE BCI TO ROBOTICS CONTROL

Aug 2014 - May 2015 | Easton, PA

- Worked with Dr. Yihchoung Yu to explore applications of the Brain-Computer Interface (BCI) to robotics control.
- Designed a Java application and a Unity3D simulation to control a quadcopter using brainwave data collected from an Electroencephalogram (EEG) headset.

LAFAYETTE SOFTWARE ENGINEERING | SIMON GAME

Jan 2013 - May 2013 | Easton, PA

- Collaborated with a team of four to design software to meet a specification.
- Designed, tested, and documented a Simon game in C++ using Qt.

LAFAYETTE ASME MOTION CONTROL PROJECT | Co-FOUNDER AND TEAM LEADER

Aug 2012 - May 2015 | Easton, PA

- Co-Founded and led a long-term project team to explore applications of 3D motion control with the Leap Motion controller.
- Developed software for controlling a computer mouse, robotic arm, and quadcopter using the Leap Motion.

HONORS AND AWARDS

2015 Lafayette ECE Graduate with Honors and Summa Cum Laude
2015 IEEE Morton Prize 1st Place Winner for Undergraduate Research
2013 Phi Beta Kappa Honors Society
2013 IEEE Eta Kappa Nu Honors Society
2013 Tau Beta Pi Honors Society