Claudia Athens

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I am interested in Engineering Development Program opportunities related to computer engineering, particularly in embedded software development.

EDUCATION

Iowa State University, Ames, IA
- B.S. Computer Engineering
- Expected Graduation: May '19
- 3.11 Cumulative GPA
- Senior Design: "Distributed Wild Bird Surveillance and Recognition System"

RELEVANT COURSEWORK
- Embedded Systems Design
- Advanced Protocols and Network Security
- Operating Systems: Principles and Practice
- Electronic Circuits and Systems
- Information System Security

SKILLS
- Languages: C++, C, Java, Python, C#, VHDL, Assembly
- Tools/Software: Qt, OpenCV, Vivado Toolset, Xilinx Platform, Github, Android Studio, Jenkins

PROJECTS
- **UAV Control** is an embedded system design project that tracks hand gestures to direct a quadcopter
- **Where's Waldo?** is an OpenCV application that tracks Waldo from different image and video sources
- **Cy's Rides** is a client-server ride-sharing Android app for ISU students

WORK EXPERIENCE

John Deere Intelligent Solutions Group, Urbandale, IA   May '18 – Present
Section Control – *Product Engineering Intern and Part-Time Student*
- Independently develop Section Control diagnostics feature for Gen4 Display in C++
- Ensure code quality by practicing test-driven development and following code review standards
- Validate designs with hardware-in-loop testing environments
- Identify and execute upon ideas to improve diagnostics feature from the customer perspective
- Collaborate with engineers on and out of Section Control team to ensure continued project progress

Iowa State University, Ames, IA   September '17 – Present
Electrical, Computer, and Software Engineers as Leaders – *Lead Peer Mentor*
- NSF-funded program devoted to increasing diversity within ECpE Department
- Develop activities that build a community within the program and scholars
- Collaborate with professors, researchers, and graduate assistant to ensure project's future success

John Deere Dubuque Works, Dubuque, IA   May '17 – August '17
WorkSight Solutions Group – *Product Engineering Intern*
- Led manual testing efforts of TimberNavi, a forestry GIS-system, by documenting and verifying software defects
- Improved TimberNavi test bench features to allow for more advanced automated testing
- Contributed to TimberNavi's automated test script library
- Collaborated with a cross-functional international development team in testing TimberNavi
- Developed agile project-management skills by leading and contributing to development meetings

LEADERSHIP AND ACTIVITIES
- Institute of Electrical and Electronics Engineers (President Emeritus)
- Digital Women (Grace Hopper Chair / Code Camp Committee Outreach Chair)
- Eta Kappa Nu Honor Society (Secretary / Weekly Help Room Volunteer)
- ECpE Curriculum Committee (Computer Engineering Student Representative)
- ECpE Student Advisory Council Member