Cole Hunt

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Objective: Seeking Full Time Employment as a Software Engineer working on Embedded Systems or Automation

Education

Iowa State University, College of Engineering, Ames, Iowa

Bachelor of Science in Computer Engineering (Current GPA 3.20) Expected Graduation May '23

Employment History

Electronics Technology Group, Ames, Iowa

Academic Employment (Student Engineer) Aug 2019 - Current

- Performed equipment maintenance for labs in the Electrical and Computer Engineering Department.
- Embedded Systems simulation support and development for online student engagement using C, Git, HTML, JavaScript.
- Developed firmware for DAQ and ADC modules integrated with an FPGA to allow multicore processing for faster data transfer and acquisition using C++, Git.

Garmin, Olathe, Kansas

Engineering Internship (Software Engineering Intern) May 2022 - Aug 2022

- Migrated flashing procedures and logging tools from x86 to ARM architecture to allow ECU flashing from a remote scalable Raspberry Pi farm using Linux, C, Python, Git.
- Developed a SQL database with Python script integration to manage a checkout system for ECU flashing farm using Linux, C, Python, Git.
- Create testing scripts to validate system status and setup hardware for system integration using Python, Git, Shell

Garmin, Olathe, Kansas

Engineering Internship (Software Engineering Intern) May 2021 - Aug 2021

- Implemented features into a Linux kernel used to test hardware produced in a Garmin factory for AutoOEM equipment using Linux, Git, Device Trees, Yocto.
- Developed testing procedures for manufacturing SiP modules to ensure proper operation and expected performance metrics using Linux, Git, Python, Shell.
- Created a new framework to rebuild previously existing tests to make the testing process easier and more informative for the manufacturing engineers using Linux, Git, Python, Shell.

Caterpillar Inc, Peoria, Illinois

Engineering Internship (Corporate Engineering Intern) June 2019/20 - Aug 2019/20

- Developed a software bridge between collision avoidance systems and ROS for interpreting messages between systems using C++, Linux, Git, Agile Development, Code Reviews.
- Integrated a web configuration API into Caterpillar systems for ECM configuration and testing using C++, Linux, Git, Agile Development, Code Reviews.
- Created a model to confirm the accuracy of Neural Network used for Object Detection and Tracking.
- Developed test criteria for physics collision simulations in Gazebo and generated large data quantities for performance metrics allowing the analysis of current sensor effectiveness using, C++, Linux, Git, Agile Development, Python, Code Reviews.

Skills

Computer Languages: C/C++, Java, Python, Bash/Shell Scripting.
Fabrication Experience: Machining, 3D Printing, Advanced Mechanical Assembly
Software/Program Experience: AutoCAD, Git, Peer Code Reviews, Agile Development, Linux Development, Yocto.
Soft Skills: Public Speaking, Time Management, Industry Teamwork, SCRUM Experience

Activities and Leadership

- FIRST Robotics Competition (FRC)
  - **Youth Involvement:** Lead Programmer (18-19), Team Captain (19), World Champs Captain (17&19)
  - FLL Mentor and FRC Controls Mentor (2017-Current)
- Boys Scouts of America - Eagle Rank (Obtained 3/18/19*)*
- Treasurer for the Engineering Student Council (Fall 2021 - Spring 2023)