Christopher FICKESS (bold?)

Electronics Engineer | Developer

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Oklahoma City, OK 73099

OBJECTIVE

Electronics Engineer and DevOps Developer with experience across Java, C++, C#, Linux, and Bash Scripting for Automation Procedures.Seeking to leverage my skills in Data Analysis, Software Development & computer programming to purse a career working on innovativemethods in Automation, Data Analysis &/or Developmental Software Design. Highly interested in (add something about their company orapplication applied for).

SKILLS

Programming Languages Java, Bash, HTML, Markdown, C++, MatLab, MAKE, Ant

Software Git, Java Swing, JUnit, Eclipse-Git, Vagrant

Development Tools Cygwin, Eclipse, Git-BASH, Visual Studio Code, Visual Studio, Azure DevOps

Operating Systems Windows, Linux Redhat

Virtualization System Virtual-Box, VMWare

Software Methodology Building, Deploying, Scripting, Wiki Development, Test Driven Development (TDD), Agile

WORK EXPERIENCE

Present Tinker Air-Force Base | Electronics Engineer/Developer,

December 2019 OKLAHOMA CITY, OK

* Conduct multiple in depth analyses of software defects and new features of military aircrafts
* Determine if defects do or do not conform to current Military and NATO’s communication standards
* Scope the depth of work necessary to resolve software defects of program increment features with the Scrum team
* Resolve software defects and create new functionality in Java and C++ using Agile methodology
* Practice Test Driven Development (TDD) when implementing software development when applicable
* Execute numerous GNU-Make builds to validate through continuous integration that updates are successful
* Execute scans on new functionality using coverity verifying that there is no introduction of vulnerabilities
* Utilize Git to pull and merge any updates to the baseline repository into the topic branch for thorough testing
* Create in depth test procedures of software modifications and new functionality for the test team to analyze
* Validate Program Increment features meets the Definition of Done upon completion using the Agile Methodology
* Create Git pull requests through MS Azure DevOps to bring the new functionality(s) to the baseline repository
* Modify multiple official procedure documents to conform to updated functionality
* Design an extensive in house Wikipedia in Markdown to disseminate information on Operations and Procedures
* Write elaborate guides on standard software application procedures, increasing overall efficiency for Scrum teams
* Document details on GNU-Make build and debug procedures, increasing knowledge and reducing debug times
* Transition software application procedure guides to the in house Wiki insuring relevance and accuracy
* Develop Bash Shell Scripts to automate the setup of all Software Development Environments (SDE)
* Volunteer for the SDE Community of Practice to disseminate new protocols to the SAFe Scrum teams
* Responsible for maintaining and structuring the team’s data storage work space
* Preform static scoping of the legacy code base to determine the possibility of Refactoring using TDD
* Contribute to Program Increment Planning, Sprint Planning, Retrospective, and Backlog Grooming Events
* Design training material and assist the rotational intern team
* Receive multiple team recognition awards for outstanding work

May 2019 University of Central Oklahoma (UCO) | Lead Research Assistant,

August 2018 EDMOND, OK

Researched Cosmic Radiation using Muon Particle Detectors

* Conducted extensive research on cosmic radiation detection using a muon particle detector
* Acquired grant funding to procure all necessary equipment by completing multiple grant proposals
* Managed a research team by orchestrating research methods, purchasing materials, and records management
* 3D printed components to construct multiple muon particle detectors
* Assembled electronic muon particle detectors and ran diagnostics on electronics
* Analyzed radiation data to determine statistical significance using MATLAB
* Effectively discovered a trend in cosmic radiation between various locations vs elevation
* Received an award for presenting at the Quarks 2 Cosmos Conference in Denver, CO

May 2019 UCO Lab & Teacher's Assistant,

January 2017 EDMOND, OK

* Tutored students in Thermodynamics, Electrical Science, Physics 1, and University Physical Science
* Graded Assignments in Computational Methods, Electrical Science, and Thermodynamics
* Instructed a supplementary drill class for Thermodynamics in critical reasoning and problem-solving strategies
* Assisted professors in demonstrating the correct approach for components of each experiment
* Recognized for the Outstanding Laboratory Assistant Award

May 2019 UCO Lead Research Assistant,

January 2017 EDMOND, OK

*Researched Human Population Growth Using A Physics Approach*

* Performed statistical analysis on human population data Excel spreadsheets to be analyzed through MATLAB
* Derived complex nonlinear differential models for human population growth
* Created mathematical representations of human population growth using a physics approach
* Proved that accepted scientific models are invalid for human population growth
* Successfully determined the most accurate model for determining the outcome of human growth rate
* Presented research findings at the National Conference of Undergraduate Research
* Presented research findings at Oklahoma Academy of Science

EDUCATION

Graduated Bachelors of Science (B.S.) Major: Engineering Physics

May, 2019 University of Central Oklahoma Minor: Mathematics

AWARDS AND RESEARCH GRANTS

May 2021 Team Recognition Award For Outstanding Work During The PI Award

August 2021 Team Recognition Award For Outstanding Work During The Sprint Award

Spring 2019 Outstanding Laboratory Assistant Award

Spring 2019 American Physics Society Outstanding Presentation Award

Spring 2018 University of Central Oklahoma Presidential Award

Fall 2018 Research, Creative, Scholarly Activities (RCSA) Research Grant

Fall 2018 Student Transformative Learning Records Research Grant

Fall 2017 Research, Creative, Scholarly Activities (RCSA) Research Grant

Fall 2017 Student Transformative Learning Records Research Grant