ANDREW V. ZWICKY

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WORK EXPERIENCE

John Deere Senior Engine Controls Engineer	2017 - Present
Engine Controls Engineer	2014 - Present
 Overhauled existing code build process, refactoring many batch files into one a Lead deployment of Mercurial by creating support tools and running a weekly Resolved many embedded engine controls software bugs Introduced continuous integration in team by creating build-on-push branches Designed, implemented, and tested embedded control code for new exhaust the 	user's group Python C s for Cl Python, Jenkins
 Engine Performance Analyst Developed high fidelity GT-Power engine simulation models for 4.5L engines Assisted calibration engineers in calibrating engine throttle via simulation 	2013 - 2014
 Continuous Improvement Engineer Commonized head bolts across engine series to reduce operator tool changes Investigated and resolved oil pump gear failures via part updates 	2012 - 2013
 Cummins Engine Company, Inc. Product Validation Engineer Lead a team developing a pre-chamber spark plug cup from concepts to design Wrote test plan and analyzed results of temperature reduction from cooling gate 	

TECHNICAL SKILLS

Proficient: Python C# C Mercurial Exposure: Jenkins Linux Git C++ Latex MATLAB Simulink/Stateflow

VOLUNTEER & PROJECT EXPERIENCE

 Children's Oncology Services – Volunteer Summer Camp Counselor Volunteered at Camp One Step, a summer camp for children diagnosed with cancer 	2018
 Supervised 13-16 year olds in a camping & outdoors focused program for one week 	
Cockatrice (A Cross-Platform Virtual Tabletop) – Open Source Contributor	2018
• #2479: Updated picture downloading code to correctly fallback to new URLs on 404 errors.	C++
Mercurial (Version Control Software) – Open Source Contributor	2017
 #3153: Fixed Mercurial to correctly handle deleted subrepositories 	Python
 #5479: Fixed diff routine to properly count lines starting in or ++ 	Python
reddit.com/r/dailyprogrammer – Volunteer Challenge Submitter	2017-2018
 /r/dailyprogrammer is about challenging programmers of all skill level with weekly programming Responsible for creating 1-2 programming challenges a month for others to solve 	ing challenges

EDUCATION

University of Illinois at Urbana-Champaign Bachelors of Science in Mechanical Engineering with Honors