ANDREW V. ZWICKY

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WODK EXPEDIENCE

WORK EXPERIENCE	
John Deere	2017 Drocont
Senior Engine Controls Engineer	2017 - Present
Engine Controls Engineer Overhauled existing code build process refeatering many batch files into one application	2014 - Present C#
 Overhauled existing code build process, refactoring many batch files into one application Lead deployment of Mercurial by creating support tools and running a weekly user's grou Resolved many embedded engine controls software bugs 	
 Introduced continuous integration in team by creating build-on-push branches for CI Designed, implemented, and tested embedded control code for new exhaust throttle 	Python, Jenkins C
Engine Performance Analyst	2013 - 2014
 Developed high fidelity GT-Power engine simulation models for 4.5L engines Assisted calibration engineers in calibrating engine throttle via simulation 	
Continuous Improvement Engineer	2012 - 2013
 Commonized head bolts across engine series to reduce operator tool changes Investigated and resolved oil pump gear failures via part updates 	
Cummins Engine Company, Inc.	
Product Validation Engineer	2011 - 2012
 Lead a team developing a pre-chamber spark plug cup from concepts to design release Wrote test plan and analyzed results of temperature reduction from cooling gallery pisto 	ons
TECHNICAL SKILLS	
Proficient: Python C# C Mercurial Exposure: Jenkins Linux Latex MATLAB Simulink/Stateflow	
VOLUNTEER & PROJECT EXPERIENCE	
Mercurial – Open Source Contributor	2017
 Fixed issue3153: correctly handle deleted subrepositories, which was affecting department Fixed issue5479: properly count lines starting in or ++ 	ent users.
reddit.com/r/dailyprogrammer - Volunteer Challenge Submitter	2017
 /r/dailyprogrammer is about challenging programmers of all skill level with weekly progra Responsible for creating 1-2 programming challenges a month for others to solve 	mming challenges
Junior Achievement – Volunteer Instructor	2013 - 2014
 Taught economics lessons & budgeting, volunteered for financial literacy fairs 	
Bartholomew Consolidated School Corporation – Minds on Math Tutor	2012
• Taught a section of 20 freshmen study skills, engineering ethics, and academic integrity	
LEADERSHIP POSITIONS AT UNIVERSITY OF ILLINOIS	
Engineering Council - President	2010 - 2011

EDUCATION

University of Illinois at Urbana-Champaign

GPA: 3.56/4.0 Bachelors of Science in Mechanical Engineering with Honors Major GPA: 3.68/4.0

• Collaborated with College administration on issues affecting 70+ engineering societies