JOHN GREGORY DREW

ENGINEERING DESIGN | SOFTWARE DEVELOPMENT
SYSTEM ENGINEERING

CONTACT

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📍 Bowling Green, KY 42104

EDUCATION

MASTER OF ENGINEERING
Mechanical Engineering
Tennessee State University
2009–2012

BACHELOR OF ENGINEERING
Mechanical Engineering
Vanderbilt University
2005–2009

SKILLS

Skill	Usage
Python	Current
Engineering Design	Current
Django	Current
Django-Rest	Current
Six Sigma Green Belt	Current
OOAD	Current
Agile/Jira	Current
Git	Current
React	2020
Solidworks	2018
ANSI Y-14.5	2017
Testing & Validation	2017
Java	2015
C#	2012

PROFILE

Customer obsessed and motivated with experience in engineering design, software development, and functional safety. Excellent critical thinking, problem solving, and organizational skills. Proactive team collaborator with a safety focused background and proven ability to provide software design solutions. Experienced in advanced quality product development.

PROFESSIONAL EXPERIENCE

Software Engineer
Forward-Lane | San Franciso, CA - Remote| 2021-Current

Contracted as Django backend developer to act as liaison for engineering and DevOps. Forward Lane uses powerful AI based technology for wealth management applications.
- Created API's using Django and Rest framework in Docker development environment.
- Interface with front-end developers to test Redux async calls verifying output.
- Authored Jira board issues and features for as project lead point of contact
- Create and approve pull request for accelerated team development.
- Build out React front-end and create video presentations for review.

Software Engineer
Full-Stack N Site, LLC | Remote | 2018-2020

Integral part of API development solutions for a wide range of applications in Python (Django). Key contributor to technology direction and application design. Full-Stack N Site is a startup that engineers web applications for mid-size companies.
- Integrated internal applications with the company tracking system using API best standards.
- Took ownership of existing full-stack development project protecting $10,000 of contract earnings.
- Led compatibility troubleshooting efforts for Mac/Linux Docker and Makefile conversion to Windows OS.
- Launched various Bootstrap based websites on AWS S3, EC2 and CloudFront logging.

System Design Engineer
Ford Motor Company | Livonia, MI | 2015-2018

Lead design and development engineer for front wheel drive transmissions systems for all global vehicle applications. Deliver product designs to production using engineering design software.
- Completed Six Sigma Green Belt training
- Developed fluid fill process using MiniTab Data Analysis software to achieve process capability.
- Used CUSCOR studies to develop system key life tests for electrified propulsion systems.
- Managed 5 programs covering 15 vehicle lines at over 20 different manufacturing.
- Executed testing for electrified powertrain systems to verify system life expectancy.
- Managed and update safety documentation including DFMEA and SCCAF.
- Analyzed measurement data to provide products within design specifications and increasing tool life.

Software Integration Engineer
Juxtopia, LLC | Baltimore, MD - Remote | 2012-2015

Led engineering and software team to design wearable optical mechanical system and integrate operating system. Juxtopia develops mechanical systems to enhance human performance.
- Develop android web services for secure persistent connection to workflow database.
- Integrated Java/android operating system into head mounted display system.
- Performed full integration testing of operating system and services for existing workflows.
- Developed use cases for project tasks and workflows for program instruction.