

PATRICK JAMES GOSACK

ELECTRICAL ENGINEER

Prior *military* electrical and system engineer. Employed in the nuclear industry with a new-found passion for software engineering. Experienced with online, operations-critical troubleshooting, component level rework with standard bench instruments and *root cause analysis*. Outside of work, I enjoy reading, playing music with friends and travelling to exotic, unconventional places.

SOFTWARE ENGINEERING PROJECTS

- System Design Capstone**
Lorem ipsum dolor sit amet, consectetur adipiscing elit
 - Fought back one of the largest wilding armies ever.
 - Stepped up when the commander was down.
 - Events led to my nomination as Lord Commander
- Songify**
Implementation of Spotify Front-End built with React/MongoDB, deployed with Amazon EC2
 - Utilized service oriented architecture to maintain clear separation of concerns and loosely coupled components
 - Complete Code Test Coverage with Continuous Integration (Jest/Enzyme/Circle CI)

EDUCATION

- 2019 **Software Engineering Immersive**
Hack Reactor Phoenix Arizona
- 2015 | 2011 **BS Electrical Engineering | BA International Affairs**
Northern Arizona University Flagstaff Arizona
- 2011 **German Language Immersive**
Leuphana Universität Lüneburg Germany

EMPLOYMENT

- Now- | 2014 **System Engineer**
Palo Verde Nuclear Generating Station Tonopah Arizona

Relationship of the number with the answer to life, the universe and everything
 - Performed emergent troubleshooting and design validation for the operations critical Control Element Drive Mechanism Control System
 - Provide validation, HDL models, simulation and documentation of locally reverse engineered electronics to combat obsolescence
 - Automated plant critical data collection from system continuous monitoring instruments
 - Experienced bench technician; proficient with electronics troubleshooting and rework
- 2010 | 2006 **Security Forces**
United States Air Force Domestic and International

Made the bed, folded the towels, listened a lot.
 - Deployed twice to AOR in support of Operation Iraqi Freedom; Operation Enduring Freedom
 - Member of Restricted Area Maintenance Team; performed time critical repairs to security sensitive electronics in a resource limited expeditionary environment

PORTFOLIO

zibmcnib

CONTACT INFO

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SKILLS LANGUAGES AND FRAMEWORKS

C
MATLAB
VHDL
Javascript ES6
React
Redux
Node.js
Pug

DATABASES

mySQL
MongoDB

TOOLS

GNU/Linux
Jest
CircleCI
git

ENGINEERING

Root Cause Analysis
System Engineering
Trending
Analytics
Component Level Rework