

NEIL A. SANDS

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EDUCATION

Arizona State University

B.S. Software Engineering, Minor Sustainability Sciences (Spring 2024)

PROJECTS

GitHub Repositories and Group Project

<https://github.com/nsands1/Games/> (Ind.) | <http://cookful.ca/> (Group) | <https://github.com/nsands1/WebDesign> (Ind.)

TECHNICAL SKILLS

Languages/Scripts: Java Git C++ C Python UML HTML/CSS/JavaScript SQL JSON PHP

Applications/Dependencies/Design Tools: Gradle Maven MongoDB Spring Boot AWS-EC2 Taiga GitHub ReqView
AsterUML Axure RP 10 Wireshark Gantt Project Lucid Chart ClearCase Unreal Engine pgAdmin4

Integrated Development Environments/Operating Systems: VS Code Eclipse IntelliJ Notepad++ Windows Oracle VM
VirtualBox Ubuntu Linux

PROFESSIONAL EXPERIENCE

Arizona Public Services – Palo Verde Generating Station

Radiological Engineer Health Physicist II:

June 2023 – July 2024

- Managed, revised, and evaluated existing radiation protection operating procedures to ensure regulatory compliance
- Assisted in training and maintenance scheduling for 88 department members
- Assisted in the development of new processes and workplace culture improvements to reduce turnover rates
- Performed area inspections citing procedure and regulatory violations to address and monitor safety issues

General Dynamics – Mission Systems

Embedded Security OS Software Engineer – Internship/Co-Op:

May 2022 – October 2022

- Gained valuable experience with software design concepts, ticketing software, industry standards, technical manual specifications, embedded hardware ARMs, and testing suites for embedded security OSs (C & C++) (Secret Security Clearance)

Intel Corporation Contractor with Edwards Vacuum – Insight Global Staffing

Intel On-Site Engineer & Field Services Engineer, Chandler, AZ:

August 2021 – November 2021

- Provided engineering support on semiconductor manufacturing equipment for processed gases, vacuum pumps, and abatement systems by upgrading and installing software and hardware
- Led and trained troubleshooting teams to efficiently resolve issues and reduce tool production downtime by an average of 35%

United States Navy

Submarine Nuclear Propulsion Supervisor:

November 2014 – November 2020

- Led the USS Virginia Reactor Laboratory Division, a 7-man technical work center, responsible for radiological controls and chemistry for the submarine's nuclear power plant and auxiliary support systems
- Restructured and provided interactive quality assurance, radiological controls, chemistry, plant operations, and casualty response training for the ship's crew, resulting in a 55% increase in Navy/DOE nuclear supervisory qualifications over 2 years
- Managed integrated plant maintenance, chemical supply, radiological waste, and repair parts programs for 3 years upholding above 95% accountability of \$794,000.00 in repair parts, chemical inventory, and 100% accountability of radioactive materials

International Automotive Components Group North America

Information Technology Internship, Southfield, MI:

June 2014 – October 2014

- Provided remote and in person technical support for both software and hardware complications for Windows OS
- Created new user profiles including email accounts, and adjudicated user permission settings and licenses