

NICHOLAS BROWN

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CAREER TARGETS: SOFTWARE ENGINEER / SOFTWARE DEVELOPER

Combining software architecture and development skills to solve problems and support business goals.

Over 13 years of experience that includes technology activities and projects in different industries (medical device, engineering, military). B.Sc. degree in Computer Science, with a focus on C/C++ and Object-Oriented Programming. Success in developing software solutions to achieve security, productivity, and efficiency improvements.

Overview:

- Skilled in identifying and resolving problems, including creation of outside-the-box strategies.
- Maintain a tenacious, extremely detailed approach to completing technology tasks and related activities.
- Diligent, dependable professional who is able to work effectively in team-based and independent projects.
- Enjoy working with different systems; keep fully up to date with new and emerging technologies.

Knowledge & Skill Areas:

Software Design & Development; Testing, Troubleshooting & Debugging; Requirements Gathering; Cross-Functional Teamwork; Presentations to Upper Management; Team Member Training & Mentoring; Vulnerability & Threat Assessment; Author of Whitepapers; Trusted Platform Module & Side-Channel Attacks; Cyber Security

Technology Skills:

Visual Studio 2017, C/C++, JavaScript, HTML, CSS

EXPERIENCE

VELENTIUM – Katy, TX – 2018-2019

Start-up company specializing in medical device design and development.

Cyber Security Engineer (contract)

Hired to help expand cyber security capabilities in order to meet new FDA requirements for medical devices. Provided security consulting throughout the entire project lifecycle. Conducted in-depth assessments of medical devices for approval by the FDA and subsequent go-to-market launches.

Reviewed devices, PCs and external software, and/or cloud-based technologies to be used in the system as a whole, identifying and relaying potential vulnerabilities to management. Performed penetration testing on each individual system subcomponent (hardware, software, firmware).

KEY CONTRIBUTIONS & ACHIEVEMENTS:

- **Mitigated the USB attack vector to prevent HID attacks** by writing a USB authorization service in C# for Windows. Enabled the company to offer a solution that blocked the use of external keyboards, mice, and network adapters to clients with PC software.
- **Identified and addressed potential cyber security vulnerabilities in early stages** of the project development lifecycle. Conducted vulnerability assessments on entire systems, including hardware, software, firmware, mobile, and cloud components during the design phase.
- **Wrote BLE fuzzing application in C that enabled fuzz-testing of Bluetooth products.**

JACOBS ENGINEERING – Houston, TX – 2012-2018

Oil and gas/petrochemical engineering contractor.

Process Technician

Contributed to the effective management of projects with high-profile clients. Assisted with estimating, tracking, and budgeting project hours. Monitored the progress for various aspects of projects against the master schedules. Prepared and issued various documents for internal and client recipients. Learned VBA coding in Excel and Word independently to expedite tasks.

KEY CONTRIBUTIONS & ACHIEVEMENTS:

- **Built an Access database for a major oil & gas client**, including SQL queries and VBA coding on the back end. Eliminated use of inefficient Excel spreadsheets for large data needs. Convinced the client of the validity of the Access approach; subsequently trained client personnel on DB post-implementation.
- **Created departmental tool for tracking P&ID drawings to and from CADD**, with VBA coding in Excel. Enabled quick and easy identification of drawing locations. Trained team members in the effective use of the P&ID tool.
- **Developed departmental tool for sizing tank vents**, with VBA coding in Excel. Enabled engineers to size vents automatically and quickly.
- **Designed a directory structure tool in MS Word** that eliminated manual creation of lists for all folders and documents associated with each project.

UNITED STATES ARMY – Fort Campbell, KY / Fort Polk, LA – 2006-2011

Deployed to Iraq when stationed at Fort Campbell; sent to Fort Polk following return.

Squad Leader

Trained, coached, and led team of 3-10 airborne infantrymen in preparation for training and combat situations. Managed daily assignments and projects. Handled logistics, operations, and data management activities, including escalated problems. Reported team progress and issues to upper management.

KEY CONTRIBUTIONS & ACHIEVEMENTS:

- **Utilized an Access database to keep track of company records**, resulting in improved recordkeeping productivity, accuracy, and efficiency.
- **Earned 2 Army Commendation Medals and an Army Achievement Award**, along with high marks on annual performance evaluations.

EDUCATION

Bachelor of Science (BS) in Computer Science – OREGON STATE UNIVERSITY – Corvallis, OR

- Strong focus in C/C++ and Object-Oriented Programming
- Honors Graduate: 3.94 GPA

Bachelor of Science (BS) in History – SOUTHWEST BAPTIST UNIVERSITY – Bolivar, MO