

JOHN BREA MCWHIRTER

Dallas, TX · johnbreamcwhirter.com

FULL STACK/EMBEDDED SOFTWARE ENGINEER

Seasoned Software Engineer with practical experience in designing, developing, and deploying software solutions. Proficient in both front-end and back-end technologies, skilled at collaborating with cross-functional teams to deliver high-quality code and promote test-driven development practices. Demonstrated track record of employing Agile methodologies to streamline development processes and meet project milestones.

SKILLS

TOOLS AND TECHNOLOGIES

PHP · TypeScript · React.JS · MySQL · Python · C# · Docker · Git · C · Bash · Java · NPM · AI/ML · Tkinter
Material UI · Microsoft Office Suite · PHPStorm · Rust · Vivado · Verilog · Altium Designer · MPLAB · GitHub
GitLab · Atlassian Products · Fusion 360 · MPLAB · SPI · UART · GPIB · Firebase · AWS

ELECTRICAL

Printed Circuit Board (PCB) Design and Fabrication · Circuit Analysis · Electrical Generation and Measurement
Communication Protocols · Power Distribution · Electromagnetic Interference and Compatibility (EMI/EMC)
Soldering · PCB troubleshooting and debugging

SOFTWARE

Software Development Lifecycle (SDLC) · Project Management · Full Stack Development · Product Development
Test Driven Development (TDD) · Continuous Integration/Continuous Delivery (CI/CD) · Object Relation Mapping (ORM)
Entity-Relational Modeling (ERM) · Mobile Development · Single Page Applications (SPAs) · File System Abstraction
Embedded Software Development · Cloud Computing

PROFESSIONAL EXPERIENCE

PAYCOM PAYROLL, LLC · Irving, TX

June 2023 – Present

Software Developer

Developed fast-paced software for international projects, emphasizing product integration with external entities focused on the Human Capital Management industry. Developed software modules and customized them for clients and internal departments. Collaborated with cross-functional teams to ensure project success. Facilitated effective communication and track development processes. Drove mobile development to expand product reach and functionality.

TEXAS INSTRUMENTS, INC. · Richardson, TX

May 2022 – August 2023

Applications Engineering Intern

Collaborated with design, marketing, sales, and product definition teams to launch new products successfully into the market. Actively offered tailored technical solutions with High-Speed Converters Group to resolve design challenges. Reviewed technical support designs and troubleshooting strategies. Attended technical seminars and distributor training sessions, gaining valuable knowledge on semiconductors, industry, troubleshooting techniques, customer service.

EDUCATION

Bachelor of Science in Computer and Electrical Engineering · Texas A&M University · 2023

PROJECTS

ULSWAP DAQ: Designed a Printed Circuit Board to capture data on various voltage and current signals operating under rocket flight conditions

LAYNES INVENTORY: A Client-Server Application to demonstrate different user interactions with Layne's Chicken Fingers Inventory.