



# Marcus Lawson

## Device Software Engineer

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### SUMMARY

Driven and passionate software engineer with over six years of experience developing embedded systems, especially in health-related environments. Strong command of C# and .NET; brings real-world expertise creating robust applications that comply with regulatory standards. Collaborates seamlessly with cross-functional teams to identify areas for enhancement, ultimately improving product performance. Enjoys diving into problem-solving and refining complex systems to boost operational efficiency, ensuring clean, maintainable code through best practices. Committed to driving innovative solutions while contributing to meticulous documentation to support compliance. Eager to leverage expertise to drive advancements at Innovative Tech Solutions.

### STRENGTHS

- 💡 **Problem-Solving**  
Consistently address challenging bugs by employing creative solutions. Colleagues often seek input during troubleshooting phases.
- 👥 **Collaboration**  
Excellent at fostering teamwork; close relations built with engineering peers lead to valuable insights during complex developments.
- 🔄 **Adaptability**  
Effectively switch between tasks and adjust strategies according to evolving project needs, earning praise for responsiveness from managers.
- 📄 **Technical Documentation**  
Prepare clear documents empowering teams to navigate intricate systems effortlessly. Previous documents become references for future builds, demonstrating thoroughness.
- ✓ **Quality Assurance**  
Ensure software quality through rigorous testing phases before deployment. Commit to maintaining high standards reflecting across projects.

### SKILLS

C# .NET Embedded Systems

Windows Programming

Agile Methodologies DevOps

Automated Testing Debugging

Engineering Documentation

### EXPERIENCE

#### Device Software Engineer

Tech Innovations Inc. 📅 January 2021 - Present 📍 Chicago, IL

Focused on designing and implementing software solutions for integrated devices in regulated sectors. Engaged actively with systems and electrical engineers to maximize device benchmarks. Contributing significantly to architecture discussions and managing design specifications enhance project outcomes. Developed rigorous testing strategies ensuring quality delivery.

- Designed software complying with healthcare regulations, enhancing operational excellence.
- Collaborated effectively with engineers, achieving a notable 20% enhancement in device performance.
- Participated in comprehensive requirements analyses, leading collaborative architecture deliberations.
- Created extensive unit tests boosting software reliability prior to roll-out.

#### Software Engineer

NextGen Technologies 📅 June 2018 - December 2020 📍 Chicago, IL

Played a key role in developing embedded systems, enhancing interoperability among medical devices launched during tenure. Took initiative to improve troubleshooting times and streamline tech operations. Researched testing frameworks adopting processes allowing quick iteration on complex projects.

- Engineered multi-threaded applications, critically adding new medical devices to the portfolio.
- Streamlined debugging methods prompting a swift reduction in issue resolution time by about 30%.
- Took charge in evaluating cutting-edge testing platforms facilitating quicker development cycles.
- Engaged in peer reviews, instilling quality assurance norms across the software team.

### PROJECTS

#### Real-Time Data Processing Project 📅 February 2023

Led a team focused on a data processing system utilizing embedded devices. Coordinated efforts between various disciplines ensuring seamless information integration. Measured success by virtually eliminating delays in data collection proceedings.

### LEADERSHIP & AWARDS

- Outstanding Developer Award 2022
- Tech Contributions Award 2021

### EDUCATION

#### Bachelor's Degree in Computer Engineering

University of Illinois at Chicago 🎓 GPA: 3.5 📅 2017 📍 Chicago, IL

**Coursework:** *Software Development, Systems Architecture, Embedded Systems, Regulatory Compliance*

Software Design Problem Solving

Testing Frameworks

Cross-Functional Collaboration

Documentation Standards

Regulatory Compliance

## LANGUAGES

English Native

Spanish Intermediate

## MY CAREER



● Device Software Engineer at Tech Innovations Inc. (5.3 Years)

● Software Engineer at NextGen Technologies (2.5 Years)

## CERTIFICATIONS

- Certified Software Development Professional (CSDP) 📅 2020
- Producer's License for Life/Health 📅 2021

## TECHNICAL SKILLS

- **Programming Languages:** C#, Java, Python
- **Development Frameworks:** .NET, ASP.NET, WPF
- **Embedded Platforms:** Arduino, Raspberry Pi, ARM
- **Version Control:** Git, GitHub, Bitbucket
- **Testing Tools:** JUnit, NUnit, Selenium
- **Database Management:** SQL Server, MySQL, MongoDB
- **Operating Systems:** Windows, Linux, MacOS
- **Virtualization Tools:** Docker, VMware, VirtualBox
- **Development Methodologies:** Agile, Waterfall, SCRUM
- **Communication Tools:** Slack, Microsoft Teams, Zoom

## PROFESSIONAL AFFILIATIONS

- Member of IEEE Professional Association.
- Active Contributor to Open Source Projects.

## ADDITIONAL INFORMATION

**Work Status** : Authorized to work in United States. No sponsorship required.

## REFERENCES

AVAILABLE ON REQUEST