

# Nasir Aguilar

## Embedded Software Engineering Intern

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### STRENGTHS

- 👥 **Team Collaboration**  
Leveraged teamwork skills during both internships, contributing significantly to group projects.
- 💡 **Problem Solving**  
Faced and overcame real-world challenges through innovative approaches in software debugging.
- 📄 **Technical Documentation**  
Effective in creating clear documents guiding end-users through complex engineering concepts.
- 🔄 **Adaptability**  
Quickly adapted to varying project demands and technologies during multiple internship roles.
- 👁️ **Attention to Detail**  
Consistently demonstrated keen attention to detail while coding and testing embedded systems.

### SKILLS

Embedded Systems Design

C/C++ Programming

Debugging and Troubleshooting

Technical Documentation

Team Collaboration

Hardware Integration

Software Testing

Microcontroller Programming

Code Optimization

Software Development

Documentation Creation

Cross-Functional Teamwork

### SUMMARY

Aspiring Embedded Software Engineer committed to technical excellence and innovation. Currently pursuing a Bachelor's in Electrical Engineering. Collaborating with diverse teams fuels creativity, enhancing problem-solving skills. Successful hands-on experience in designing and testing embedded systems. Passionate about integrating software with hardware, I thrive in fast-paced environments that challenge my analytical abilities. My C/C++ programming knowledge empowers me to craft efficient code for microcontrollers. Eager to contribute to impactful projects at Innovative Tech Solutions, I aim to further enhance my skills while making meaningful contributions to industry challenges.

### EDUCATION

#### Bachelor's Degree in Electrical Engineering

University of Texas at Austin 🎓 GPA: 3.8 📅 2024 📍 Austin, TX

*Coursework: Embedded Systems, Programming, Digital Circuits, Microcontrollers*

### TECHNICAL SKILLS

- **Programming Languages:** C, C++
- **Development Tools:** Eclipse, Visual Studio
- **Embedded Platforms:** Arduino, Raspberry Pi
- **Operating Systems:** Linux, Windows
- **Version Control:** Git
- **Simulation Tools:** MATLAB, Simulink
- **Testing Frameworks:** Google Test, Unity
- **Circuit Design Tools:** Altium, Eagle
- **Project Management:** Trello, JIRA
- **Collaboration Tools:** Slack, Microsoft Teams

### EXPERIENCE

#### Embedded Software Engineer

Tech Innovations Inc. 📅 June 2024 - Present 📍 Houston, TX

Focused on developing embedded software applications for microcontroller systems. Engaged actively in collaboration with engineers to optimize integration of hardware-software components, aiming for enhanced functionalities in smart devices.

- Developed embedded software for various microcontroller-based products
- Collaborated with hardware engineers ensuring seamless system integration
- Contributed towards optimizing existing software for performance improvements
- Supported the refinement of internal processes to enhance team efficiency

#### Embedded Software Intern

Digital Dynamics LLC 📅 January 2023 - May 2024 📍 Fort Worth, TX

Assisted in designing and testing embedded systems tailored for consumer electronics. Collaborated closely with cross-functional teams to troubleshoot integration issues between software and hardware.

- Wrote and debugged efficient C/C++ code for embedded applications
- Participated in troubleshooting activities bridging hardware and software
- Assisted in creating technical documentation including user guides
- Collectively contributed to timely completion of project milestones

Problem Solving

System Integration

Communication Protocols

Analytical Skills

## LANGUAGES

English Native

Spanish Intermediate

## MY CAREER



- Embedded Software Engineer at Tech Innovations Inc. (2 Years)
- Embedded Software Intern at Digital Dynamics LLC (1.3 Years)
- Academic Research Assistant at University Project (3 Months)

## Academic Research Assistant

University Project 📅 September 2022 - December 2022 📍 Austin, TX

Engaged in research focusing on embedded software applications within the academic context. Worked closely with faculty to design and analyze project methodologies, aiming for practical implementations.

- Conducted thorough literature reviews relevant to embedded systems
- Assisted faculty in conducting experiments involving hardware prototypes
- Created comprehensive reports detailing findings and potential applications
- Supported peers in collaborative aspects of research assignment

## LEADERSHIP & AWARDS

- Dean's List recognition for outstanding academic performance.
- Recipient of the University Engineering Scholarship for outstanding merit.

## CERTIFICATIONS

- Certified Embedded Systems Engineer 📅 2025
- C/C++ Programming Certification 📅 2024

## PROFESSIONAL AFFILIATIONS

- Member of the IEEE Student Branch, facilitating discussion on advancements in engineering.
- Active participant in university's Robotics Club, showcasing teamwork and leadership skills.

## ADDITIONAL INFORMATION

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

## REFERENCES

AVAILABLE ON REQUEST