

# Nasir Aguilar

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## 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

## 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
- Problem Solving
- System Integration
- Communication Protocols
- Analytical Skills

## 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

### 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

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## LEADERSHIP & AWARDS

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

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## CERTIFICATIONS

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

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## 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.

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## LANGUAGES

- English (Native) • Spanish (Intermediate)

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## ADDITIONAL INFORMATION

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

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## REFERENCES

AVAILABLE ON REQUEST