

# 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** 2024  
University of Texas at Austin GPA: 3.8 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** June 2024 - Present  
Tech Innovations Inc. 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** January 2023 - May 2024  
Digital Dynamics LLC 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** September 2022 - December 2022  
University Project 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

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

## CERTIFICATIONS

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

## PROFESSIONAL AFFILIATIONS

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

## LANGUAGES

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- English (Native) • Spanish (Intermediate)

## ADDITIONAL INFORMATION

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

## REFERENCES

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AVAILABLE ON REQUEST