



# NICK DARIA

## Embedded Engineer

### ABOUT ME

I am a full-stack software developer with a passion for embedded development, avionics systems, and automotive systems.

I enjoy working both individually and as part of a team in fast-paced environments with constantly changing requirements. I take absolute pride in my work, and always go the extra mile to deliver the best deliverables possible.

I also consider myself to be a highly versatile resource with balanced experience in full-stack development, hardware design, cable/harness design, technical documentation, product requirements design, and excellent communication skills.

### CONTACT

PHONE:

*Available upon request*

WEBSITE:

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EMAIL:

[me@nickdaria.com](mailto:me@nickdaria.com)

### HOBBIES



Private Aviation



[Automotive Performance](#)



[Automotive Reverse Engineering](#)



F1



Home Automation

### SKILLS

#### Embedded:

- C/C++ microcontroller development (Espressif/Atmel)
- PCB Design (KiCad 8)
- RTOS & Superloop w/event queue design patterns
- SPI/I2C/UART, BLE
- Design & reverse engineering of CAN implementations (+J1939)
- Ultra low power hardware and software design

#### PCB Design:

- ESP32 WROOM SoC with 4x multiplexed SPI MCP25625, 12v

#### Desktop/Server:

- C# Desktop (Forms/WPF/Blazor/Console) applications
- ASP.NET backend applications and REST APIs (w/ Swagger)

#### Other:

- Detailed technical documentation writing
- Customer/installer technical diagnostics and support
- Web: HTML/CSS/JS, Bootstrap/PicoCSS, Angular/TS, WebBLE

### EDUCATION

#### The University of Alabama

August 2019 – May 2023

Graduated with a *B.S. in Commerce and Business Administration* on a full presidential scholarship. Participated all four years in undergraduate research programs while also working professionally in software development all four years. Took and passed various CS & ECE courses.

#### Northridge High School

August 2015 – May 2019

Scored a 30 on the ACT, a 5 on the AP Computer Science exam, and passed 7 college-level courses via UA Early College.

### EXPERIENCE

#### Kinematix Engineering - Embedded Software Developer

May 2021 – Present

- Developed modular embedded operating platforms from the ground up for safety critical industrial displays and controllers.
- Designed user-friendly and intuitive industrial display user interfaces with in-depth diagnostic workflows.
- Designed and reverse engineered CAN networks & electrical systems for automotive applications.
- Developed user-friendly desktop applications for configuring and updating modules in the field.
- Wrote and implemented hardware programming & testing systems for mass production of hardware.
- Wrote in-depth and well-formatted technical documentation for various technical skill levels.

#### Center for Advanced Public Safety - Software Development Intern

Spring 2019

Interdisciplinary research internship implementing web technologies for Alabama State contracts.