

MICHAEL MASCARI

Software Engineer 2

@ CONTACT INFO

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EDUCATION

Bachelor of Science

Computer Science

Florida Institute of Technology

- Aug 2017 - April 2021
- Melbourne, FL
- GPA: 3.42

SKILLS

- C, C++, Assembly, Python, Java
- Embedded Software
- SQL
- Jira, Atlassian, Bitbucket
- Git, SVN, CC/CQ
- VxWorks, GHS
- Linux, Unix, Windows
- .NET
- Low Latency Programming
- Multi Threaded Programming
- DOORS
- Microsoft 365
- Backend Software
- Machine Learning
- Computational Mathematics

WORK EXPERIENCE

Embedded Software Engineer 2

[CMC Electronics \(contractor\)](#)

July 2024 - Present Sugar Grove, IL

- Created efficient C and C++ embedded software for pilot displays and controls.
- Worked with safety critical software under DO-178C standard.
- Handled requirement creation, refinement, and implementation.
- Used ARINC 429 communication protocol for avionic systems.

Embedded Software Engineer 2

[Northrop Grumman \(contractor\)](#)

Aug 2023 - June 2024 Rolling Meadows, IL

- Implemented radar jamming solutions for the AC-130 and F-16.
- Focused on embedded software engineering in C and C++.
- Completed new features from feature requests to completed.
- Managed junior engineers in the fresh grad program.

Software Engineer 2

[CAE](#)

May 2021 - March 2023 Arlington, TX

- Worked on a F-16 simulator used for military training.
- Created aircraft flight dynamics, behavior, and tactics.
- Used C++, C, Python, Ada, Java, and SQL.
- Developed low-latency and multi-threaded solutions.
- Obtained secret security clearance.

Software Engineer

[Advantek](#)

Aug 2020 - April 2021 Melbourne, FL

- Maintained and updated a code base written in Python, C, C++, and JavaScript.
- Developed software for portable diagnostic tools and HVAC systems.
- Wrote python program displaying effectiveness of products tailored for new clients.

PROJECTS

- Created a Twitter bot that insults the users of a program I made.
- Programmed a neural network for a drone to identify forest fires.
- Freelanced an autotrade algorithm using TD Ameritrade API.
- Volunteered developing MRI software.