

# 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

#### Software Engineer 2

##### CMC Electronics (contractor)

- 📅 July 2024 - Dec 2024 📍 Sugar Grove, IL
- Created efficient C and C++ embedded software for pilot controls, resulting in a 20% improvement in user interface performance.
  - Lead engineer for "Worst Case Execution Time" reduction. Leading to a 30% decrease in time execution.
  - Worked with safety critical software under DO-178C standard.

#### 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 - Mar 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

##### Avantek

- 📅 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

- 📅 - current
- 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.
  - Established Personal email server.