

# MICHAEL MASCARI

Software Engineer 2

## @ CONTACT INFO

✉ michael@mascari.me  
☎ (630) 642-0722  
📍 Chicago, IL  
🌐 michael-mascari-53739017b/  
💬 mmascari99  
🌐 mascari.me

## 🎓 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

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

- 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.