

Ronald Marrero



<https://CSharpRon.dev>

[GitHub](#) | [Medium](#) | [Twitter](#)

Education

Master's of Science in Computer Science



(Specialization in Computational Perception & Robotics)

- Georgia Tech
- In progress
- Expected Graduation Date: May 2022

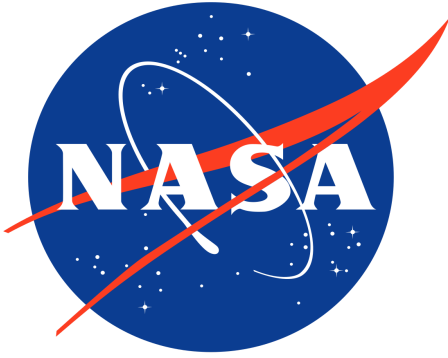
Bachelor's of Science in Computer Science

- University of Central Florida
- Graduation Date: May 2019

Certified Scrum Master

- Certified: March 2018

Job Experience



Software Engineer: Pathways - NASA

- January 2020 - Present
- Responsibilities:
 - NASA Software Lead for KSC Ground System Hazardous Gas Detection Software
 - Software Architect for a new KSC measurement request tracking system
- Tools:
 - PostgreSQL, Docker, Go, React, Next.JS

Software Engineer II - ERC (TOSC Contract at KSC)

- August 2019 - January 2020
- Description: Support the Software Development Lifecycle related to the ground systems at Kennedy Space Center for the Artemis missions. This work includes creating software for the Launch Control Center as well as working with ground engineers to create software needed for their monitoring and operations.

Software Developer - Orlando Health

- January 2018 - August 2019
- Description: Design and implement new line-of-business applications for Orlando Health, as well as code bug fixes and enhancements to existing projects.

Software Developer Intern - NASA

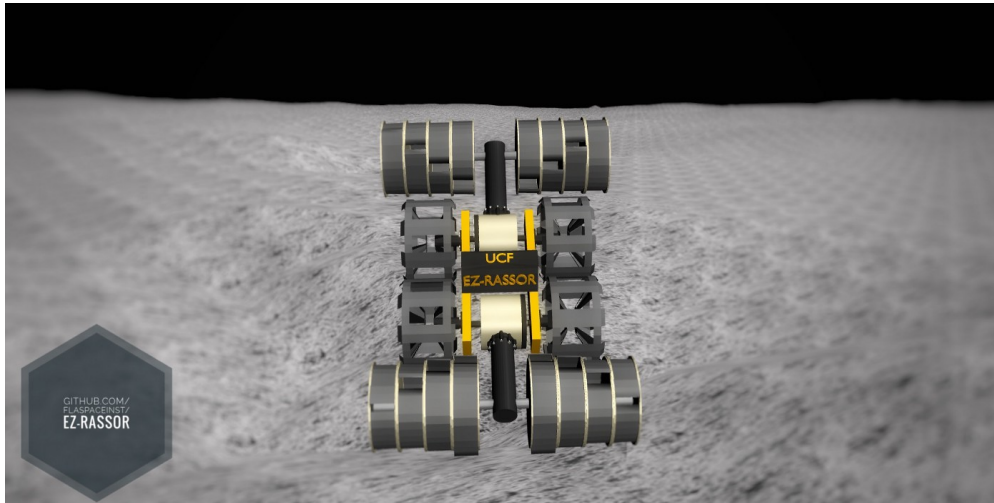
- October 2018 - May 2019
- Description: Design a simulation in Gazebo for an internal rover project based on NASA's [RASSOR project](#), complete project documentation, and operate as Project Manager over the 10-person internship team.

IT Tech - Orlando Health

- July 2015 - January 2018
- Description: Troubleshoot and maintain organization computers and systems, work directly with physicians, nurses, etc. to resolve a wide range of technical issues, serve as an escalation point to other Field Support team members, and manage SharePoint 2010 department site and subsites.

Robotics Projects

EZ-RASSOR (Easy Regolith Advanced Surface System Operations Robot)



- September 2018 - Present
- Description: This project is a software suite based on ROS to control a small excavation robot that is being created by the Florida Space Institute and NASA for education.
- Technologies Used: ROS Kinetic, ROS Melodic, Gazebo 7, Gazebo 9, Python 2, React Native, C++11, Qt
- Roles: ROS/Simulation Developer and Team Lead
- Project Site: [www.github.com/FlaSpaceInst/EZ-RASSOR](https://github.com/FlaSpaceInst/EZ-RASSOR)
- IROS 2020 Tutorial Videos: www.space-robotics.org/videos

Technical Skills

Technologies	Languages	Frameworks/Tools	Operating Systems
ROS Kinetic/Melodic	Python	Entity Framework	Ubuntu 16.04/18.10
MVC	C/C++	ASP.NET	Windows 7, 10
Blender	T-SQL	Microsoft SQL Server	
Unity	HTML	Oracle SQL Server	
Docker	JavaScript	Xamarin	
Jenkins	ColdFusion		
Azure Management/AD	React/Node.JS		
Vim	Java		
Redis Cache	C#		
Qt Creator	Bash		
Next.JS	Go		