

# COLIN MOORE

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## ABOUT ME

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PhD Student with a passion for Robotics, Artificial Intelligence, and Machine Learning.

## EDUCATION

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**Master's in Computer Science**, North Carolina State University Dec. 2020  
Relevant Coursework: Robotics, Distributed Systems, Game AI, Compiler Optimization, Computer Graphics  
GPA: 4.0

**Bachelor of Computer Science**, North Carolina State University 2016 - 2019  
Minor in Physics  
GPA: 3.8

## SKILLS

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<b>Programming Languages</b>	Python, Rust, Typescript, Javascript, Java, C, C++
<b>Technical Skills</b>	Linux, Git, Docker, Pytorch, Tensorflow, ROS
<b>Soft Skills</b>	Teamwork, Problem Solving, Decision Making

## EXPERIENCE

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**Research Assistant** August 2021 - Present  
RobotCodeLab, North Carolina State University *Raleigh, NC*

- I am exploring applications of reinforcement learning (RL) to solving domain specific POMDPs.
- I am mining Github repositories to gain insights into the activities of open source robotics developers.

**Technical Intern** May 2020 - Present  
Applied Research Associates, Inc. *Raleigh, NC*

- I wrote software to train Graph Convolutional Networks (GCNs) and Convolutional Neural Networks (CNNs) on geospatial datasets.
- I integrated trained models into a software package to improve localization accuracy.

**Research Assistant** Jan 2020 - May 2020  
North Carolina State University *Raleigh, NC*

- Applied my data science and machine learning skills to provide insights on a dataset of video watchtimes.
- Published *Finding Video-watching Behavior Patterns in a Flipped CS1 Course* (SIGCSE 2021)

## LEADERSHIP

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### Aerial Robotics Club at NC State

**Club President** 2017-2020

- I directed the design, construction, operation and maintenance of the club's competition aircraft.
- I directed the completion of all deliverables for the club's participation in the SUAS competition.

**Software Subteam Leader** 2017-2019

- I oversaw and assisted with transitioning the club's legacy software systems to a new autopilot.
- I managed the maintenance of the club's existing software stack.
- I coordinated the deployment of new software versions to the club's production systems.