

Nicholas Mosher

Education, Honors, and Awards:

Received **RIT Presidential Scholarship** and **RIT Computing Medal Scholarship**.
Member of **Computer Science House** at RIT.
Software Engineering undergraduate student at Rochester Institute of Technology (2015 - 2020).
Graduated with Advanced Diploma from Nandua High School in 2015.

Work/Extracurricular Experience:

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| Day Counselor at Virginia Space Flight Academy | <i>Summer 2015</i> |
| Taught campers about Lego and Arduino robotic design and programming.
Introduced the idea of "autonomy" and provided libraries for sensors and PID controls.
Gave tours of NASA Wallops, including the machine shop and rocket assembly buildings. | |
| Internship at NASA Wallops Flight Facility | <i>Summer 2014</i> |
| Designed a pictorial layout and gathered documentation for a high-pressure gaseous oxygen system for use on a C-130 research aircraft. | |
| FIRST Robotics Team 1829 "The Carbonauts" | <i>Jan 2011-May 2015</i> |
| Served as lead programmer and designer, captain of control and subsystem teams, and captain of team 1829. | |
| Android Development iD Tech Camp at MIT | <i>Summer 2012</i> |
| Learned advanced Java and Android development techniques.
Developed android game application as a final project. | |
| Internship at Computer Repair Store | <i>Summer 2011</i> |
| Diagnosed and repaired laptop and desktop computers, including: backing up clients' data; formatting and reinstalling operating systems; and installing professional software. | |

Independent Projects: (My GitHub: <https://github.com/nicholastmosher>)

- TEC-COMM:** TEC Universal Communications App
Project repository: <https://github.com/nicholastmosher/TEC-COMM>
This is my most ambitious project, in which I envision an app that provides an easy to use remote interface to robotic and embedded projects. More details on the repository site.
- Kudos:** A versatile robotics platform
I designed, sourced, built, and programmed a 60-pound, 30"x30" aluminum robot to be an expandable form factor for hobby robotics.

Skills:

Languages/Platforms: Java, C/C++, Android, Arduino, Mbed
Environments/Tools: Linux, Command line interfaces (bash/ssh, cmd.exe), Git/GitHub, Project management tools (Trello, Podio)
Miscellaneous: Networking, Computer-Aided Design (CAD), Robotics, Closed-loop control systems (PID)