Nick Mosher

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Education, Honors, and Awards

GPA: 3.8

Software Engineering student at Rochester Institute of Technology (2015 - 2020).
Recipient of RIT **Presidential** Scholarship, RIT **Computing Medal** Scholarship, **Redcom** Software Engineering Scholarship.
Member of RIT **Dean's List** Fall 2015, Spring 2016.
Member of **Computer Science House** at RIT.

Work Experience

Software Engineering Intern at Constant Contact (now Endurance) *June - July 2016*

Worked on an email backend development team. Used Java 8 and Maven, learned about RESTful services and team-based git workflow (fork/PR, rebasing, etc), and participated in team Scrum meetings and processes.

Day Counselor at Virginia Space Flight Academy *June - August 2015*

Taught campers aged 11-17 about basic robotics using Lego Mindstorms and Arduino. Topics included sensor feedback, basic control flow, and an introduction to the PID closed-loop control algorithm using a custom PID library.
github.com/nicholstmosher/PID

Internship at NASA Wallops Flight Facility *June - August 2014*

Designed a pictorial layout and gathered documentation for a high-pressure gaseous oxygen system for use on a C-130 research aircraft. Used Autodesk Inventor for modeling.

Independent Projects and Other Experience

Easycom Library *2015 - 2016*

Independently created an Android library for establishing interface-independent control for networked projects. Used polymorphism to shift connection implementation responsibilities to subclasses. Currently supports Bluetooth and TCP.
github.com/nicholastmosher/easycom-core

Apple iOS App Challenge at RIT *January 2016*

Learned basic iOS app development using Swift in Xcode over a four-day hackathon with guidance from Apple employees. Submitted iOS game "Death by QR" for judging.
github.com/nicholastmosher/DQR

Kudos *August 2014*

Created a simple and modular robotics platform with emphasis on easy extensibility. Kudos is a 30in x 30in, 60lb aluminum robot designed using Autodesk Fusion 360 and controlled with an Arduino and an Xbox wireless remote.
nicholastmosher.com/Kudos

FIRST Robotics Team 1829 "The Carbonauts" *2011 - 2015*

Programmed five robots using LabVIEW and Java; designed, fabricated and assembled mechanical systems; and guided teammates through an iterative design process for solving yearly challenges.

Skills

Languages and Platforms

Java (Advanced)
C/C++ (Proficient)
Android (Proficient)
Arduino (Proficient)

Environments and Tools

Windows, Linux, OSX
Git, Bash/cmd.exe, SSH, Vim, Tmux

Other

Computer-Aided Design (CAD)
Maven

A current version of this resume may be found at nicholastmosher.com/Resume.pdf.