

# STEPHEN NOROD

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## EDUCATION

<b>Georgia Institute of Technology</b> – Atlanta, GA	Bachelor of Science: Computer Engineering	May 2019
GPA: 3.30/4.00	Classification: Junior	

## EXPERIENCE

<b>Abbott Laboratories / St. Jude Medical</b> – Embedded software engineering full-time co-op, worked on the CardioMEMS Heart Failure System (an FDA-regulated product) as part of the R&D team	Jan. 2017 - June Atlanta, GA
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- Translated a faulty XML parser from C# to Python, debugged it, and updated it to print XML data entries into an Excel workbook with multiple worksheets
- Analyzed PCB schematics, performed electrical testing and solder inspection on circuit boards, experimented with testing environments, and authored a technical report to address an electronic performance issue
- Updated a software application's build scripts from Bash to Python for ease of use

<b>Brain Trauma Assessment Protocols</b> – Android developer for Georgia Tech VIP (Vertically Integrated Projects) team under Dr. Elliot Moore II, tasked with building a suite of mobile app modules to administer tests and collect data from individuals who have suffered brain traumas	Aug. 2016 - Dec. Atlanta, GA
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- Developed an Android app module to simulate an image-naming neuropsychological test, provide digital audio feedback, and retrieve audio data from the user

<b>RoboJackets IGVC</b> – Software engineering sub-team member for Georgia Tech's Intelligent Ground Vehicle Competition team, tasked with producing an autonomous robot capable of navigating an off-road obstacle course	Sept. 2015 - Dec. Atlanta, GA
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## PROJECTS

<b>Pacman</b> - Building general search algorithms for a Pacman AI to find efficient paths through a maze world	Jan. 2018 - Present
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<b>snorod.com</b> - Developing a side-scroller game to embed in personal website using melonJS and GitHub Pages	Feb. 2016 - Present
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<b>Find George</b> - Designed efficient image-searching algorithms for locating a variably scaled target in C and ASM	Sept. 2017 - Oct.
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<b>boggle-ish</b> - Created a numeric Boggle-style game in Java, which generates a random playing board of numbers and finds each solution (a chain of numbers that adds up to the board's area) using depth-first graph traversal	Mar. 2017 - Apr.
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<b>Virtual Doctor</b> - Prototyped an Amazon Alexa skill for diagnosing a user's illness based on his or her symptoms	Feb. 2017 - Mar.
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<b>DE2Bot</b> - Programmed a DE2Bot to semi-autonomously explore an area, locate objects using sonar distance sensors, touch these objects, and return to its initial position in the most efficient manner possible	Nov. 2016 - Dec.
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<b>DTMF Decoding</b> - Designed eight FIR filters (band-pass and high-pass) for decoding DTMF signals using MATLAB	Apr. 2016
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<b>pitchPy</b> - Developed a Python program for tuning instruments by manipulating input frequencies to detect the pitch of notes at HackFSU '16 (Florida State University hackathon)	Feb. 2016 - Mar.
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## SKILLS

<b>Programming</b> –	ADVANCED:	Python, Java, JavaFX, MATLAB
	INTERMEDIATE:	ASM, C, Bash, HTML, CSS, JavaScript (melonJS / React)
	BEGINNER:	React Native, Git, SVN, VHDL, PowerShell, Linux (Ubuntu), XML, JSON, C#, Android, Tcl, Tkinter, ROS

**Software / Instrumentation** – mbed, Altera Quartus II, Oscilloscope, Logic Analyzer, FPGA, NI myDAQ, NI ELVISmx, DMMs, Altera DE2 Board/Bot, Tiled Map Editor, Trac, Windchill, AWS Lambda, Amazon DynamoDB, Audacity, Autodesk Inventor Pro

**Engineering** – Data Structures and Algorithms, Artificial Intelligence, Digital Signal Processing, Digital System Design, Physical/Mathematical Foundations of Computer Engineering, Architecture/Concurrency/Energy in Computation, Circuit Analysis

**Communication** – Technical Writing, Adv. German, Basic Korean, Overcoming Language Barriers, Tutoring, Recruiting, Mentoring

## LEADERSHIP

<b>GT Circle K (Boys &amp; Girls Club volunteering)</b>	Volunteer	Jan 2018 - Present
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<b>Tech the Halls (mentorship program for disadvantaged children in Atlanta)</b>	Mentor	Sept. 2015 - Present
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<b>Abbott Laboratories / St. Jude Medical</b>	Career Fair Recruiter	Jan. 2017 - June
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<b>Brain Trauma Assessment Protocols (Georgia Tech VIP team)</b>	Info Session Recruiter	Aug. 2016 - Dec.
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