

STEPHEN NOROD

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EDUCATION

Georgia Institute of Technology – Atlanta, GA
GPA: 3.30/4.00

Bachelor of Science: Computer Engineering
Classification: Junior

May 2019

EXPERIENCE

Abbott Laboratories / St. Jude Medical – 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

- 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

Brain Trauma Assessment Protocols – 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

- Developed an Android app module to simulate an image-naming neuropsychological test, provide digital audio feedback, and retrieve audio data from the user

RoboJackets IGVC – 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

PROJECTS

- Building general search algorithms for a Pacman AI to find efficient paths through a maze world Jan. 2018 - Present
- Developing a sidescroller game to embed in personal website snorod.com using melonJS and GitHub Pages Feb. 2016 - Present
- Designed two efficient image-searching algorithms for locating a variably scaled target in C and ASM Sept. 2017 - Oct.
- Created a number-based Boggle-style game in Java, which generates a random playing board of numbers and finds each solution (a chain of numbers adding up to the board's area) using depth-first graph traversal Mar. 2017 - Apr.
- Worked on Amazon Alexa skill for diagnosing a user's illness based on his or her symptoms Feb. 2017 - Mar.
- 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.
- Designed eight FIR filters (band-pass and high-pass) for decoding DTMF signals using MATLAB Apr. 2016
- 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.

SKILLS

Programming – Python, Java, JavaFX, MATLAB, ASM, C, Bash, HTML, CSS, JavaScript (melonJS / React), React Native, Git, SVN, Android Studio, VHDL, PowerShell, Linux (Ubuntu), XML, JSON, C#, 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, Mentoring, Tutoring, Recruiting

LEADERSHIP

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