STEPHEN NOROD

Atlanta / Washington D.C. **|** C: 703 463 1029 **|** snorod3@gatech.edu **|** www.snorod.com **|** U.S. Citizen

EDUCATION

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

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

snorod.com - Developing a side-scroller game to embed in personal website using melonJS and GitHub Pages   Feb. 2016 - Present

Pacman - Building general search algorithms for a Pacman AI to find efficient paths through a maze world   Jan. 2018 - Mar.

Find George - Designed efficient image-searching algorithms for locating a variably scaled target in C and ASM   Sept. 2017 - Oct.

boggle-ish - 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.

Virtual Doctor - Prototyped an Amazon Alexa skill for diagnosing a user's illness based on his or her symptoms   Feb. 2017 - Mar.

DE2Bot - 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.

DTMF Decoding - Designed eight FIR filters (band-pass and high-pass) for decoding DTMF signals using MATLAB   Apr. 2016

pitchPy - 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 –   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

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.