

Yehowshua Immanuel

yimmanuel3@gatech.edu ☒ +1 (678) 216-6333 ☒ <https://yehowshuaimmanuel.com/about/>

INTERESTS	Compilers, ISA Design, Hardware and Verification Language Tooling, Mathematics and Electromagnetics	
EDUCATION	Georgia Institute of Technology Atlanta, GA Masters in Computer Engineering	Jan 2019 – Dec 2020 GPA: 3.62 / 4.0
	Georgia Institute of Technology Atlanta, GA Bachelor of Science in Computer Engineering	May 2017 – Dec 2018 GPA: 3.62 / 4.0
	Kennesaw State University Marietta, GA Transfer with 60 credit hours.	Jun 2016 – May 2017 GPA: 4.0 / 4.0
SKILLS	Computing	
	Software Languages	
	☒ C(expert in C, proficient in rest), C++, Java, Python, Basic HTML, BASH(and most standard UNIX utils.)	
	Hardware Languages	
	☒ VHDL, Verilog, Python Migen HDL, Some Bluespec	
	Software Tools	
	☒ Docker, Git, \LaTeX , VIM, Regular Expressions, some Apache	
	Development Tools	
	☒ GNU/BSD Make, GCC, Sub tools(ie: ar, nm)	
	APIs and Protocols	
	☒ Ethernet, UART	
	Hardware	
	☒ Raspberry Pi, FPGAs, Arduino, Embedded Arm, PCB Design	
	Arts	
	Music	
	☒ Piano, Bass, LMMS(Linux MultiMedia Studio)	
	Film and Animation	
	☒ Blender, Synfig Studio, Inkscape	
	Languages	
	☒ English, proficient in French	
EXPERIENCE	Synergy Lab, ECE Department, Georgia Tech	
	Master's Student,	May 2018 – Aug 2018
	☒ Implementing a reconfigurable ML hardware accelerator in an FPGA and accompanying compiler+driver stack	
	Electronic Systems Warfare Lab, Georgia Tech Research Institute	
	Student Assistant	Summer 2018 and 2019
	☒ Verified the mathematics of various mechanical models of simulated agents in the Scrimmage simulation engine.	
	☒ Scripted and deployed Git version control commit rules	
	☒ Built BSD POSIX Libraries for VXWorks RTOS and wrote accompanying drivers.	
	RetroTech, Georgia Tech	
	Student Assistant	Aug 2017 – May 2018
	☒ Diagnosed and restored legacy computers such as the Macintosh SE 1987. Deployed Verilog logic analyzer in FPGA to facilitate this process	
	Sensors and Electromagnetic Applications Laboratory, Georgia Tech Research Institute	
	Student Assistant	May 2017 – Aug 2017
	☒ Designed a printed circuit power board for an airborne radar.	
LEADERSHIP	Chi Alpha Worship Band	Aug 2018 – Present
	Played bass for worship team.	
	FutureTech Middle School Outreach	Mar 2018
	Lead FutureTech Exhibit at Georgia Tech to introduce middle schoolers to Computer Engineering	
	BCM Worship Band	Aug 2016 – May 2017
	Played piano for worship team.	