# William Brice Minix

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## EDUCATION

**Georgia Institute of Technology**, Atlanta, GA — August 2018 – May 2022 (Anticipated)

- Candidate for Bachelor of Science in Electrical Engineering
- Minoring in Computing and Intelligence
- Cumulative GPA: 4.0

## LEADERSHIP/ACTIVITIES

**Student Council – Parliamentarian** (2015 – 2018)

- Engaged in numerous community and school service projects, including school orientation, childhood cancer awareness activities, and the Tim Tebow Foundation's Night to Shine for people with special needs

**First National Bank of Coffee County (FNBCC) Junior Board of Directors – Chair** (2017 – 2018)

- Conducted meetings according to Robert's Rules of Order
- Developed and presented a presentation to teach good financing practices to our classmates

**Technology Student Association – Tests of Engineering, Aptitude, Mathematics, and Science** (2016 – 2018)

- Placed 2nd in the state of Georgia and competed in the national competition
- Placed Top 10 in the Nation for the Prepared Presentation portion

## WORK EXPERIENCE

**Digital Design Laboratory – Undergraduate Teaching Assistant** (2020)

- Answered students' questions and checked off lab work for the laboratory course on rapid prototyping and FPGA design

**Coffee County Memory Project – Georgia Tech Serve-Learn-Sustain Intern** (2019)

- Conducted and transcribed interviews, scanned historical photos and documents, digitized historic events from newspapers, and organized newspaper editions to develop an oral history about the public schools' integration in Coffee County

**Optima Chemical Group, LLC – STEAM Intern** (2018)

- Installed thermal overloads on motors, terminated CAT6 ethernet cables, experimented with Programmable Logic Control (PLC) simulators, and observed other installation and maintenance processes
- Worked with an Inductively Coupled Plasma device, centrifuges, auto-titrators, Gas Chromatography (GC) devices, and other equipment to test chemical samples

**City of Douglas Engineering Department – STEM Intern** (2017)

- Directly assisted the electrical engineer and project manager of a future City of Douglas vehicle maintenance facility, assisted with wiring data cables, and used a GIS device to collect data on inclines for future projects

## SKILLS

**Programming:** Java, MATLAB, C, MIPS Assembly, VPython (basic)

**Instrumentation:** Digital Multimeter (Laboratory Bench and Portable), RCL meter, DAQ, oscilloscope, crimping tool, centrifuge, auto-titrator, electronic scale, pH probes, conductivity probes, gas chromatography devices, ICP device

**Lab:** Designing and building first-order and second-order active filters with op amps, building passive filters, building passive and active diode circuits (wave shapers, peak detectors, and rectifiers), analyzing transistor circuits, designing impulse responses and plotting frequency responses and periodograms to measure acoustics, designing and building state machines and combinational logic circuits on a protoboard, plotting signals and spectrograms for signal processing and analysis, measuring rise time, fall time, propagation delay, period, and duty cycle

**Software:** Multisim, Quartus, Word (Microsoft Office Specialist in 2010), Excel (Microsoft Office Specialist in 2010), PowerPoint, Google Slides, Google Docs

**Communication:** Presentations, Speeches, Email

**Athletics:** Georgia Tech Baptist Collegiate Ministry (BCM) Intramurals, Runner (Cross Country and Track for 6 years)

## AWARDS AND RECOGNITION

- Georgia Tech Faculty Honors (Fall 2018 – Spring 2020)
- National AP Scholar
- Coffee County 2018 STAR Student