

Rielle Micah Quiambao

ELECTRICAL AND COMPUTER ENGINEERING · COMPUTER SCIENCE

427 Towerview Drive (Box 97093), Durham, NC 27708

☎ (+1) 919-381-2006 | ✉ rielle.quiambao@gmail.com | 🏠 www.baorie.github.io | 📷 baorie | 🌐 riellemq

Summary

Current sophomore at Duke University double majoring in Electrical & Computer Engineering and Computer Science. Super nerd who loves Vim, Linux, and low-level programming languages. Interested in concentrating studies and future research in microelectronics, machine learning, digital systems, solid-state devices, and integrated circuits.

Education

Duke University Pratt School of Engineering

Durham, North Carolina

B.S.E. IN ELECTRICAL & COMPUTER ENGINEERING AND COMPUTER SCIENCE

Aug. 2016 - May 2020

- Wilkerson Dunn Scholarship
- Lehman M. Brady Scholarship

Relevant Experience

Durham Academy Summer Technology Program

Durham, NC

TEACHING ASSISTANT

Jul. 2014 - Aug. 2017

- Taught basic programming using MIT's Scratch and Google's CS First program to elementary and middle school aged children.
- Promoted group collaboration, inter-team communication, and problem solving in a classroom environment.
- Aided international students with limited English proficiency using alternative teaching methods and resources.

UNC-Chapel Hill Department of Physics & Astronomy

Chapel Hill, NC

LEAD PROGRAMMER

Jul. 2015 - Aug. 2015

- Built and designed Python Kelvin-Helmholtz visualization scripts that aided in graduate research of astrophysical magnetohydrodynamics and interstellar medium.
- Utilized and implemented code from Princeton University's Athena MHD Project.

Skills

Java Python C++ Matlab Arduino LaTeX Linux Logisim Raspberry Pi

Projects

Pipelined Processor

Durham, NC

ECE 350 COURSEWORK

Spring 2018

- Designed and simulated a five-stage single-issue 32-bit processor, using **Verilog HDL**.
- Integrated own register file, ALU, and multiplier/divider sub-circuits.
- Used pipeline latches, implemented bypassing, and handled hazards.

Autonomous Vehicle

Durham, NC

DUKE UNDERGRADUATE IEEE

Fall 2017

- Created a prototype autonomous vehicle using a remote-control car, and camera.
- Built using **Python**, **OpenCV**, and **Miniconda**.

Integrated Design Challenge

Durham, NC

ECE 110 COURSEWORK

Fall 2017

- Designed a robot equipped with sensing, motor capabilities, and an Xbee radio.
- Built using **Arduino** and **C++**.

MIPS Processor

Durham, NC

ECE 250 COURSEWORK

April 2017

- Implemented concepts from course to build a fully-functional processor using **Logisim**.