

curriculum vitae of
Bennett Waddell
ELECTRICAL ENGINEERING · RESEARCH EXPERIENCE · TA EXPERIENCE
CIRCUIT DESIGNER · SYSTEM PROGRAMMER

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EDUCATION

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|-------------------------|---|------------------------------------|
| Fall 2019 - Present | M.S. in Electrical Engineering | UNIVERSITY OF TENNESSEE, KNOXVILLE |
| | This program involved a deeper delve into certain topics within Electrical Engineering. This study included a deeper study of analog and mixed signal circuit designs, studying the state of the art and implementing concepts discussed through simulations and layouts in Cadence. Wave theory, the design and printing of microwave circuits and antennas also formed a large portion of the program. Lastly, low level programming of systems and an in-depth study of the physics of semiconductors rounded out the program. | |
| Fall 2015 - Spring 2019 | B.S. in Electrical Engineering (Honors) (Magna cum laude) | UNIVERSITY OF TENNESSEE, KNOXVILLE |
| | This program involved a broad coverage of the field of Electrical Engineering, from network theory to physics and circuit design. The capstone project for this program was the development of Affordable Microbots for use in the simulation of swarm dynamics. Honors requirements included Community Service, more rigorous coursework, and attendance of extracurricular seminars. | |

EXPERIENCE AND EXTRACURRICULARS

RESEARCH WORK

1. **Graduate Research Assistant** Helping to design, and creating a program to operate, an SPAD sensor array. Advised by Dr. Nicole McFarlane of the University of Tennessee. (Summer 2019 - present)
2. **Undergraduate Research Assistant** Development of testing equipment and control of systems through NI Labview for measurements of ferroelectric thin films. Advised by Dr. Jian Liu of the University of Tennessee. (January 2017 - Fall 2018)

NON-RESEARCH WORK

3. **President, IEEE Eta Kappa Nu - Beta Phi Chapter** Merit organization for electrical engineers, organizing meetings and giving public tutorials on SPICE. (October 2019 - present)
4. **Undergraduate Teaching Assistant** Instructing students on Amplifier design, SPICE simulations, and the use of testing equipment. (August 2018 - December 2019)
5. **Guest Services at Blackberry Farm** Communication and Team Building skills in a highly professional service environment. (June 2016 - November 2018)

HONORS

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| Fall 2015- Spring 2019 | Summa, Magna, cum Laude Dean's List | TICKLE COLLEGE OF ENGINEERING |
| Fall 2015- Spring 2019 | Chancellor's Honors Program Graduate | UNIVERSITY OF TENNESSEE, KNOXVILLE |
| Fall 2015 - Spring 2019 | Engineering Honors Program Graduate | UNIVERSITY OF TENNESSEE, KNOXVILLE |
| Spring 2017 - present | Fellow, IEEE Eta Kappa Nu Honors Society | IEEE |
| Spring 2015 | Valedictorian, Class size 247 | MARYVILLE HIGH SCHOOL |

SKILLS

Proficient in C++, ADS, Cadence, Labview, SPICE, and MATLAB, with some experience in Javascript, HTML, and VHDL. Additionally versed in circuit and antenna design.