

David Wamai

Resume

University of South Carolina
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Education

2020 - 2024 **B.S.**, Computer Science, University of South Carolina Columbia.

Research Experience

Research Assistant **Adaptive Real-Time Systems Laboratory**, University of South Carolina Columbia.

Non-Academic Experience

2024 - Present **Embedded Systems Engineer**, Inventions Unlimited, LLC. Columbia, SC.

Awards and Honors

Conference Proceedings

- [2] AQM Zohuruzzaman, David P. Wamai, Weicong Feng, Sadik Khan, Austin R. J. Downey, Jie Wei, Erik Blasch, and Paul T. Schrader. Highway slope monitoring using 3D laser scanning at different seasons. In Kannappan Palaniappan and Gunasekaran Seetharaman, editors, *Geospatial Informatics XIV*, volume 13037, page 1303706. International Society for Optics and Photonics, SPIE, 2024. doi:10.1117/12.3016172
- [1] Ryan Yount, Joud N. Satme, David P. Wamai, and Austin R. J. Downey. Edge processing for frequency identification on drone-deployed structural health monitoring sensor nodes. In Hoa G. Nguyen, Paul L. Muench, and Robert Diltz, editors, *Unmanned Systems Technology XXVI*, volume 13055, page 130550L. International Society for Optics and Photonics, SPIE, 2024. doi:10.1117/12.3013712

Posters

- [4] David Wamai, Jason D. Bakos, and Austin R. J. Downey. Hardware development for a nmr signal processing instrument. pdf. URL: <https://cse.sc.edu/~adowney2/publications/Posters/Wamai2024HardwareDevelopmentNmr.pdf>
- [3] David Wamai, Jackie Wang, Jason D. Bakos, and Austin R.J. Downey. Excitation signal generation for a compact nuclear magnetic response sensor. pdf. URL: <https://cse.sc.edu/~adowney2/publications/Posters/Wang2024ExcitationSignalGeneration.pdf>
- [2] Jackie Wang, David Wamai, Jason D. Bakos, and Austin R.J. Downey. Development of an fpga-based signal processing system for a compact nmr measurement system part-i. pdf. URL: <https://cse.sc.edu/~adowney2/publications/Posters/Wang2022DevelopmentFpgaBased.pdf>

- [1] David Wamai, Jackie Wang, Jason D. Bakos, and Austin R.J. Downey. Development of an fpga-based signal processing system for a compact nmr measurement system part-ii. pdf. URL: <https://cse.sc.edu/~adowney2/publications/Posters/Wamai2023DevelopmentFpgaBased.pdf>

Open Source Hardware

- [2] ARTS-Lab. Signal processing instrument for nmr (SPIN). GitHub. URL: <https://github.com/ARTS-Laboratory/signal-processing-instrument-for-NMR>
- [1] David Wamai, Hasan Borke Birgin, Austin Downey, and Joud Satme. Biphasic data acquisition system. GitHub. URL: <https://github.com/ARTS-Laboratory/Biphasic-data-acquisition-system>