MASON CANNON

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**Education**

**Boise State University**

**Bachelor of Science, Electrical and Computer Engineering** Aug 2019 - Present

**Minor, Applied Mathematics**

* Expected Graduation in May 2023
* 3.2 GPA

**Experience**

**NASA Idaho Space Grant Consortium,** Boise, ID— *Intern* Summer 2022

* Researched a Colpitts oscillator in a vacuum chamber
* Ran simulations in LTSpice
* Performed high temperature tests

**Chartwells,** Boise, ID— *Food Service Worker* Jan 2022 - Present

* Handled payments and served meals
* Cleaned and sanitized the dining area

**Undergraduate Research,** Boise State — *Assistant* Aug 2020 - Present

* Researched Microwave Vacuum Electron Devices
* Tested devices using vacuum chambers
* Created circuits and programs for experiments

**Walsh Engineering,** Idaho Falls, ID— *Intern* Summer 2020

* Worked on major projects for the INL
* Modeled and annotated project designs in Revit

**Skills**

* Revit
* LTSpice
* Coding Languages (Labview, C/C++, Javascript)

**Leadership**

* Freshman Representative for IEEE at Boise State University (2019-2020)
* Member of Microgravity research team at Boise State University (2019-2020)

**Peer-Reviewed Publications**

* R. Bhattacharya et al., "Effect of room air exposure on the field emission performance of UV light irradiated Si-gated field emitter arrays", Journal of Vacuum Science & Technology B 40, 010601 (2022) https://doi.org/10.1116/6.0001593
* R. Bhattacharya et al., "Gated Field Emitter Arrays for Planar Crossed-Field Device Experiment," 2021 IEEE International Conference on Plasma Science (ICOPS), 2021, pp. 1-1, doi: 10.1109/ICOPS36761.2021.9588644.
* R. Bhattacharya et al., "High Current Field Emission Arrays for Crossed-Field Device Experiments," 2021 34th International Vacuum Nanoelectronics Conference (IVNC), 2021, pp. 1-2, doi: 10.1109/IVNC52431.2021.9600707.