W. Conor McFerren

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SUMMARY OF QUALIFICATIONS
- Leadership and management skills from executive positions that required directing large organizations.
- Experience in adherence to rules and regulations from student organizations that require careful attention to policies.
- Proven skills in directing, managing, and executing recruitment and outreach projects.

EDUCATION
University of Georgia, Franklin College of Arts & Sciences   Athens, GA
Bachelor of Science in Computer Science   May 2021
- GPA: 3.21/4.00.
- Financed education through on-campus work and award of the HOPE and Zell Miller Scholarships.

TECHNICAL SKILLS
- **Programming Languages**: Python, C++, C, CUDA C/C++, Java, Fortran, VBA, HTML
- **Operating Systems**: Windows /10 /Vista /XP /7, Mac OS, Linux, Unix
- **Software**: Systems Tool Kit (STK), GNURadio, Adobe Photoshop, MS Excel, MS Word, MS Visual Studio, Vim, Git
- **Radio:** Amateur Radio General License (KN4SIT)

RELATED EXPERIENCE
Small Satellite Research Lab at UGA   Athens, GA
Simulation Manager & Mission Operations Team Lead   September 2018 - Present
- In charge of creation of simulations for the SPOC and MOCI Satellites.
- Wrote a Python package to integrate with STK for use in batch processing.
- Created lifetime estimates, thermal simulations, solar panel generation estimates, and target-pass time estimates and scheduling.
- Performed testing at the NASA Ames facility in San Jose, California for the SPOC Satellite.
- Presented research at Annual Symposium on Space Innovations at Georgia Institute of Technology.
- Current Mission Operations Team Lead and in charge of Ground Station Operations and Satellite communications.

University of Georgia Department of Physics and Astronomy   Athens, GA
Researcher   May-December 2016
- Researched the creation of planetary systems in binary star systems.
- Handled and processed observatory images from the University of Hawaii.
- Studied Gyrochronology for the estimation of low-mass stars.

PROJECT EXPERIENCE
Small Satellite Research Lab   Athens, GA
STKHelper   September 2018 - Present
- Wrote a Python Package (STKHelper) that is listed on the Python Packaging Index.
- Integrates Systems Tool Kit (STK) with Python to aid in batch processing.
- Aids in integration with ground station software for complete mission operation control.

ADDITIONAL EXPERIENCE
Beta Upsilon Chi Fraternity, Pi Chapter   Athens, GA
New Member Educator   December 2018 - Present
- Led education process and new member activities for two new member classes, making sure to adhere closely to regulations.
- Coordinated new member outreach and recruitment, recruiting the largest new member class in the chapter's history.

UGACard Office   Athens, GA
Lead Photographer and ID Technician   May 2017 - Present
- As longest working student-employee, facilitated training for all current student-employees
- Lead photographer for the UGACard Office as well as Lead Photographer and committee member of the Miss University of Georgia Competition.