

John Paul Lineberger

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Education

Clemson University

Bachelor of Science, Bioengineering

Graduation Date: Spring 2020 GPA: 3.37/4.0

Relevant Coursework

- Engineering Graphics and Design with CAD Software
- Principles of Engineering with MATLAB
- Cell Biology/Biochemistry
- Biomaterials/Lab Operations
- Bioinstrumentation and Circuits
- Artificial Intelligence Research and Applications
- Biomedical Device Design and Regulation
- Orthopaedics, Biomechanics, and Physiological Processes
- Material Processing and Manufacturing
- Transport Phenomena and Biofluid Mechanics

Experience

Machine Learning Research Assistant, Clemson University ECE, 4-9/2019

- Created AI solutions for university research partners using Pytorch, TensorRT, and NVIDIA JetPack SDK
- Integrated machine learning applications by designing and producing all-in-one prototype solutions
- Solved image recognition and machine vision problems using deep learning
- Presented at weekly team meetings and conferences

Special Projects Associate, NUS Consulting Group, (6-9/2017, 5-9/2018, 12/2018)

- Responsible for the creation of the Data Entry Manual for all North American offices and documentation for data entry workshops
- Management of utility usage database for clients across North America, Eastern Asia, and Australia
- Working with clients to investigate and report on utility-based issues

Campus Leadership / Activities

President, Clemson Quadcopter Club, 8/2017- present

- Managed day to day operations of running a 35+ student organization
- Negotiating deals with sponsors and formation of CDRA policies
- Teaching workshops on carbon frame design, soldering, electronics handling, and basic quadcopter programming

Researcher, Clemson-IBM Watson Development Creative Inquiry, 01/2018 – present

- Working with IBM and Clemson Researchers to develop new ways to improve and investigate issues using IBM's Watson Technology
- AI applications in medical device imaging in collaboration with Prisma Health's Trauma Centers
- Presenting and constructing the use of Watson in Clemson's Precision Agriculture Project to IBM Executives

Researcher, Team Research Analytics in Computational Environments (TRACE), 12/2019 - present

- Researched aspects of human centered artificial intelligence
- Helped build and run team cognition study with ARMA platform

Member, Undergraduate Clemson Bioengineering Society, 11/2017- present

Member, Clemson Photography Club, 01/2017 – present

Professional and Technical Skills

- Data Analysis
- Technical Writing
- MATLAB
- Solidworks (Associates Certification)
- VBA Coding in Excel
- Machine Learning
- Python
- Manned Aerial Vehicle Operations
- Unmanned Vehicle Operations
- 3D Prototyping
- CUDA
- PID Loop Controllers (Betaflight)
- Computer building, troubleshooting, and diagnostics
- Adobe LightRoom and Premier
- Digital Photography
- Microcontrollers

