**Quinn Meyer**

[Website](https://quinnmeyer.com) || [LinkedIn](https://www.linkedin.com/in/quinn-meyer-27b4b51a3/) || [GitHub](https://github.com/Kwintonium)

**EXPERIENCE**

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| **Aptiv** | Troy, MI |
| Data Scientist - Camera Systems | 2018 – 2022 |

* Operated as a full-stack software engineer developing image processing applications to measure image quality metrics such as focus score, SNR, demosaicing, color calibration, dark noise, etc.
* Used K-Means clustering on data from the DAT2.0 camera module to improve standard deviation of MTF measurements in a validation environment by 5%
* Led correlation studies of focus metrics between validation and manufacturing tests to ensure lean manufacturing and customer requirements to reduce scrap by 10%
* Lead developer for novel camera calibration software in Python using a newly implemented distortion model at a cycle time of under 60 seconds per unit
* Developed object detection software using Tensorflow to detect and segment camera targets in highly distorted raw images to automate preexisting manual image preprocessing software at 99% accuracy
* Developed a metrological testing algorithm to assess camera model accuracy on the order of 2 millimeters at 20 meters range for global verification of Aptiv’s manufacturing process
* Expert in perspective geometry and responsible for correlation studies of calibration accuracies between five different methodologies of suppliers and customers
* Quantified image sensor perceptiveness using Fourier signal processing techniques to objectively assess sensor MTF to successfully correlate to module MTF
* Developed a Python script to interface with Solidworks for the design engineers to ensure camera field of view and boresight error fits within dimensions of a bracket
* Collaborated to develop a custom camera alignment machine and software to align cameras using a six-axis robot, intermediate optic, active adhesive curing, and optimization software based on focus scores
* Responsible for writing scripts that clean unstructured tabular data and developing relational databases
* Experienced in technical writing, data visualization, creating PowerPoints, and presenting to customers

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| **Rolls-Royce** | West Lafayette, IN |
| Capstone Project | Spring 2018 |

* Worked with a small team of engineers to design, source, fabricate, code, and launch a robust automated test fixture for simulating the forces distributed onto a jet turbine in under six months
* Deployed the project 25 percent under budget and ahead of scheduling with the text fixture currently being used in the Rolls-Royce research and development facility in West Lafayette

**EDUCATION**

**Master of Science in Data Analytics**…………………………………………………………………December 2022

Western Governor’s University, Salt Lake City, UT

**Bachelor of Science in Mechanical Engineering**……………………………………………………………… 2018

Purdue University, West Lafayette, IN

**SKILLS**

**Programming Languages:** Python, SQL, MATLAB, HTML

**Python Packages:** Jupyter,Numpy, Pandas, Scikit-Learn, OpenCV, Pillow, Plotly, Tensorflow, Keras

**Tools & Methodologies:** Tableau, Git, Jira, ETL, Machine Learning, Deep Learning, Computer Vision, Signal Processing, Database Design, Data Visualization, Data Analysis, Microsoft Office, Technical Writing