**Quinn Meyer**

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

**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, Natural Language Processing, Signal Processing, Database Design, Data Visualization, Data Analysis, Microsoft Office

**EXPERIENCE**

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| **Aptiv** | Troy, MI |
| Camera Systems Engineer | September 2018 – April 2022 |

* Remotely led a global team of engineers to launch and validate intrinsic calibration software for manufacturing and achieved a cycle time below 60 seconds per unit for multiple optical paths at 100k+ cameras per year in less than 6 months as a critical path
* Technical lead for novel intrinsic calibration verification software in Python referencing publicly available white papers with a newly implemented distortion model at a cycle time of under 60 seconds per unit
* Developed metrological testing algorithm to assess camera model accuracy on the order of 2 millimeters at 20 meters range for verification of Aptiv’s global intrinsic calibration manufacturing process
* Led a data analytics study on the DAT2.0 camera module using classification techniques to improve standard deviation of MTF measurements in a validation environment by 0.03 MTF at 0.25 cycles/pixel
* Interfaced with automotive lens, sensor, image quality, lens quality, and camera alignment suppliers as well as OEM customers as a technical expert to assess camera quality and to perform root cause analysis
* Implemented a novel white paper method in Python to objectively test for image sensor perceptiveness through use speckle interferometry and signal processing techniques to objectively assess sensor MTF
* Developed Python API with Solidworks to ensure camera field of view and boresight error fits within dimensions of a bracket for mechanical engineers to reference during design
* Developed neural net models using Tensorflow / Keras to detect and segment camera targets in highly distorted raw images and implemented these models into image processing software
* Collaborated to develop a custom camera alignment machine to align cameras using a six-axis robot, intermediate optic, active adhesive curing, and optimization software based on focus scores
* Operated as a full-stack engineer developing image processing tools to measure image quality metrics using focus score, SNR, demosaicing, RAW images, color calibration, dark noise, etc.

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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