# Sai Sanketh Poosarla

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## Experience

**Manufacturing Engineering Specialist**                                **Aug 2021 - Mar 2024**
*Teledyne DALSA*, Waterloo, ON, Canada

- Led multiple projects to drive Cleanroom Particle Scrap down, working with Process, Production, and R&D to develop processes and identify root causes, resulting in a 40% reduction in scrap fallout YoY.
- Managed Statistical Process Control (SPC) system assisting with yield investigations and trend analyses using SQL, SSRS and PowerBI. SPC system was critical in preventing large scrap events with alerts when scrap was trending outside control limits.
- Improved cleanroom cleanliness process by developing garbing and cleanliness procedures wrt to ISO Class 5 and 6 standards along with Lean and 5s principles. Led the training and re-training process of over 150 operators and conducted follow up audits of the procedures.
- Managed the procurement and installation of a Cleanroom Particle Monitoring system including creating a live PowerBI dashboard, saving $50,000/yr via yield improvement actions and labor time savings.
- Created mulitple PowerBI Dashboards for Planning - Sales order backlog and forecast, Margin analysis, Daily Shipping Allocation tool, and more using advanced DAX, Power Query and SQL - with SAP S4 Hana as the main ERP system.

**Co-Founder/Systems Lead**                                **Dec 2017 - Jan 2022**
*Helium Aero*, Design Fabrication Zone, Toronto, ON

- Led the assembly, wiring and connection, and testing of a 128 cell li-ion battery (8s 16p). The battery was tested using drone motors, monitoring amperage via the BMS system. Sized and selected the ring terminals, fuse wires, BMS system, li-ion batteries, and safety switch, soldering and crimping wherever needed.
- Systems and Power Lead of a team of 30 members that attended the Boeing GoFly Competition at NASA AMES Research center. Flight tested a 30 kg drone prototype as part of the competition.
- Implemented FAR 25 and SAE ARP 4754 practices throughout the design and assembly of the project as part of the GoFly Competition requirements for entry.
- Worked with the NVIDIA Jetson TX2 and its integration with PX4 Flight Controller and UX interface software (ArduPilot and Qt). Succesfully performed SITL simulations + created a prototype UX interface that integrated with Mission Planner.

**Programs Analyst Intern**                                **Sep 2019 - May 2020**
*Bombardier Aviation*, Downsview - Toronto

- Performed financial and schedule risk analysis, and data management mainly using Excel, MS Projects and VBA to automate excel tasks.
- Handled KPI and financial estimates forecasting relating to change management for key stakeholders, including senior management.

## Education

**Bachelor of Engineering in Aerospace Engineering**                                **May 2021**
*Toronto Metropolitan University (formerly Ryerson University)*, Toronto, ON, Canada