

# Rishi Kumar Srinivasan

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## Education

### National University of Singapore

B.Eng (Hons), Mech. Engineering (Aeronautical Specialization)

2<sup>nd</sup> Major in Innovation and Design Program

NUS Overseas College Toronto (Entrepreneurial Studies)

Singapore, Singapore

July 2022

### University of Toronto

Entrepreneurial Studies

Toronto, Canada

Jan 2021 – Dec 2021

## Experience

### LanciaConsult

#### Management Consultant

Singapore, Singapore

June 2022 – March 2023

- Account lead across diverse client portfolio including government agencies, energy consultancies, non-profits, and fintech startups and generated ~\$170k revenue from deliverables within 8 months
- Successfully executed end-to-end SME digital transformation project for a SME.
- Developed materials for companywide usage to guide Agile Project Delivery using SCRUM frameworks

### Skygauge Robotics (*Forbes 30 under 30 startup*)

Toronto, Canada

#### Mechanical Engineering Intern

Jan 2021 – Dec 2021

- Utilised MATLAB and Python for automating flight log analysis and developed methods for additional variables to aid engineering team using existing datapoints
- Designed and developed components (drone-wall interface) and software tools (signal processing) for next iteration of drone incorporating insights from earlier Primary research with stakeholders
- Conceptualised and conducted an end-to-end test plan (thrust stand test of single/coaxial motors) utilising third party test equipment and developed internal data processing tool customised for engineering team

### Business Development Intern

Jan 2021 – Dec 2021

- Conducted Primary Market Research with multiple stakeholders across the vertical of industry and analysed proposed business model with primary and secondary data to advise executive team on direction forward
- Managed technical considerations from customers to advise on engineering decisions and direction
- Studied a novel use case for the product through primary research and developed a go-to-market and development strategy for this application

### Nutonomy (*now Motional*)

Singapore, Singapore

#### Mechanical Engineering Intern

Mar 2018 – Aug 2021

- Developed and implemented a company wide work tracking tool using JIRA that seamlessly integrated the car conversion process between various teams which automated the process and accelerated work
- Integrated Quality Management procedures into the car conversion process
- Obtained insights into SCRUM based project management which I subsequently weaved into the work tracking tool for better planning

## Projects

### Electric Aircraft for Healthcare Logistics

Singapore, Singapore

#### Team Lead

Jan 2020 – Jan 2021

- Designed transformative fully electric aircraft for rural healthcare logistics in Indonesia.
- Conducted rigorous flight tests on 1/5 scaled prototype, optimizing performance and maneuverability.
- Leveraged research to bridge transportation gap, addressing critical healthcare challenges in remote areas.

# Rishi Kumar Srinivasan

## UTMS for UAV Traffic Management

Singapore, Singapore  
Jan 2022 – May 2022

- Proposed UTMS: Decentralized, scalable, and blockchain-based solution for efficient UAV traffic management.
- Autonomously manages UAV traffic through customizable airways, ensuring seamless integration with existing aviation operations.
- Enhances safety and traceability, revolutionizing air traffic management for urban environments and beyond.

## Awards

### Electric Aircraft for Healthcare Logistics Team Lead

Singapore, Singapore  
Jan 2020 – Jan 2021

- Designed transformative fully electric aircraft for rural healthcare logistics in Indonesia.
- Conducted rigorous flight tests on 1/5 scaled prototype, optimizing performance and maneuverability.
- Leveraged research to bridge transportation gap, addressing critical healthcare challenges in remote areas.

## Skills

### Proficient

**CAD:** Solidworks, Inventor, Fusion 360

**Rapid Prototyping:** 3D printing, Laser cutting, CNC milling

**FEA:** Solidworks

**CFD:** ANSYS

**Aero tools:** XFLR5, Javafoil

### Intermediate

**FEA:** ANSYS

**CFD:** Solidworks

**Development boards:** Arduino, Raspberry Pi

**Flight Control Boards:** Ardupilot Pixhawk

**Languages:** Python (Robotics), MATLAB

**Project Management:** Agile Project Delivery

### Basic

**Project Management tools:** JIRA

**Database:** SQL

**Languages:** Python (Data Analysis), C++

**Web Development:** HTML, CSS