Rishi Kumar Srinivasan

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Education

National University of Singapore   Singapore, Singapore
B.Eng (Hons), Mech. Engineering (Aeronautical Specialization)   July 2022
2nd Major in Innovation and Design Program
NUS Overseas College Toronto (Entrepreneurial Studies)

University of Toronto   Toronto, Canada
Entrepreneurial Studies   Jan 2021 – Dec 2021

Experience

LanciaConsult   Singapore, Singapore
Management Consultant   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.

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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

NUS Enterprise Venture Initiation Program Grant Winner- $10k   Singapore, Singapore
                                                                             May 2023
- CEO and Co-Founder of eat.social
- Honed Product Market Fit, Lean Startup Methodology and Web Development skills with the development of the platform

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