Anuraj Singh Rawat

Mobile : +65 96408305
Email : anuraj.rawat@u.nus.edu
Skype : anurajrawat98
LinkedIn : AnurajRawat

Personal Statement

Internship Objectives

Seeking a position at a Startup where I can employ my strong analytical and problem-solving skills. Having had work experience in both technical engineering fields and applied sciences as well as business development and project management, I believe that I can synergize the two skill sets to effectively contribute in a fast-paced startup environment.

About Me

I love technology and am ever amazed by the ability of humans to sense, perceive and react to their surroundings. I have spent a good part of the last year developing artificial sensory devices inspired from biological systems. Gaining relevant research and corporate experience along the way both as a student researcher as well as a product development intern at the Agency for Science, Technology and Research, Singapore.

I am a believer in accessible education being an enabler to uplift human lives. I have previously interned at an edu-tech startup and am currently working on my own venture to make prototyping skills more accessible to the masses.

Having pursued a multidisciplinary education, I have tried to develop a diverse skillset. As a materials engineer I have taken part in the undergraduate research opportunities program, which has honed my lab skills and has helped me connect the dots between abstract academic knowledge and its need for conversion into realizable products. I have also worked on numerous design projects, extensively using the design thinking methodology and human centred design to formulate engineering solutions to real world problems.

Alongside my academic endeavours, my experience as a Marketing and Operations intern at Tueetor (a startup) has built my business development and customer relations skills. Skills that have made me an able communicator who thrives when working in a collaborative environment. Not shying away from leadership, I have represented the NUS Materials Science and Engineering student body as the Vice President of the Materials Science and Engineering Club planning and organizing student welfare events with efficiency and effectiveness.

During my free-time, you can either catch me playing badminton or keeping up with the latest basketball news. I also enjoy running. It keeps my mind off work and revitalizes me to keep moving forward.

If you like what you see, feel free to reach out to me. I am ready to bring my perspective and skills to the table.

Education

Aug 2016 - Present	**National University of Singapore** Bachelor of Engineering (Honours) in Materials Science and Engineering | Innovation and Design Program (Distinction)	Singapore
Aug 2017 – Present	**Undergraduate Research Opportunities Program** Research description: Biohybrid Materials and Devices (Research Details in Work Experience)	Singapore
Jul 2014 - May 2016	**Global Indian International School** • International Baccalaureate Diploma • Subjects: Physics (7/7), Chemistry (7/7), Math (7/7) • Overall Score: 43/45 (Top 3% Worldwide)	Singapore

Work Experience

Jun 2018 – Aug 2018	**A*STAR | Agency for Science Technology and Research** *Product Development Intern* • Fluorescent based biosensors fabrication for micro/nano-packaging applications and food freshness monitoring at IMRE (Agency for Science, Technology and Research). The work is funded by EPTL, A*STAR's commercialization arm • Iterated a new sensor design using rapid prototyping, which cut down fabrication time by nearly 50%. • Built a simple signal processing tool using Excel and Python to automate data retrieval and experimental analysis.	Singapore
Aug 2017 - Present	**NUS Faculty of Engineering | Department of Materials Science and Engineering** *Student Researcher* • Developing and optimizing flexible electronic sensor devices with touch, thermal and light sensing by incorporating photosynthetic proteins for biomedical applications in Electronic Skin and Braille Detection. • Designed, Fabricated and Tested the device from scratch to optimize performance. • Co-Author of book chapter titled "Bio-photoelectrochemical Cells: Protein Immobilization routes and Electron Transfer Modes" in Photosynthetic Protein-Based Photovoltaics CRC Press, Taylor & Francis Group 2018, Edition 1	Singapore
May 2017 – Aug 2017	**Tueetor** *Marketing and Operations Intern* • Spearheaded Tueetor's online marketing efforts to increase product outreach and carried out marketing analysis for the same to develop insights. • Supported client management to reach out to existing customers and improve user-experience	Singapore
Jun 2015 – Jul 2015	**CERN | The European Organization for Nuclear Research** *Research Intern* • Collaborated with the Gas Based Particle Detectors group at the Compact Muon Solenoid Experiment in Geneva, Switzerland. • Conceptualized and built Resistive Plate Chambers for muon (particle) detection.	Geneva,CH

Projects

Sept 2017 - Present	**Co-Founder | *Nucleate, Social Enterprise*** ● Developing a platform fostering mentorship and teaching of maker skills amongst school students as well as corporate professionals. ● I lead business development, sourcing for new opportunities and clients who would like to collaborate with us.	Singapore
Jan 2018 – Present	**Hoberman Spheres | *Metamaterial 3D- Printing*** • Exploring and applying design thinking methodologies on 3D printing single structure Hoberman spheres. • Working on 3D printing modification, CAD modelling/simulation and materials fabrication to produce auxetic Hoberman Spheres to be used new generation artificial neurosensory devices.	Singapore
Aug 2017 – Nov 2017	**Plas+ | *Intelligent Waste Solutions*** • Conceptualised a smart bin solution to address the needs of government agencies rising costs in sorting and recycling house-hold plastics and waste.	Singapore
Jan 2017 – April 2018	**Superfarm | *Zero-Waste households*** • Implemented a strategy to redefine the concept of how plastics are used in the grocery shopping experience. • Analysed user journeys and user flows to identify key pain points in the present grocery shopping experience to brainstorm, design and propose a new plastic free grocery shopping experience.	Singapore

Scholastic Achievements/Extracurricular Activities

Sept 2018	**Falling Walls Lab | Singapore** • First runners up in this Science, Technology and Business competition. • Invited to Berlin, Germany for the international Falling Walls Conference.	Singapore
Aug 2018 – Present	**External Liaison | NUS Entrepreneurship Society** • Responsible for liaising with external parties who collaborate with the NUS Entrepreneurship Society. • Fostering the local entrepreneurship scene in Singapore through organization of workshops and events on entrepreneurship.	Singapore
Aug 2016 – Aug 2018	**Vice President | NUS Materials Science and Engineering Club** • Served as the Marketing Director in my first year and was primarily responsible for marketing outreach and sponsorship management. • Assumed duties of Vice President the following year managing the club's external relations concerning student welfare, industry collaboration and event organization.	Singapore
Aug 2017 – Feb 2018	**Executive Committee Member | Innovation and Design Program Makers Club** • Organized prototyping workshops for students in the Innovation and Design Program dealing with hardware programming and Computer Aided Design	Singapore

Skill Sets & Proficiency

Prototyping	Arduino Prototyping	Proficient
	Computer Aided Design – Autodesk Fusion	Intermediate
	Laser Cutting	Intermediate
	Soldering	Intermediate
Research	Technical Report Writing	Proficient
	Sputtering Techniques	Proficient
	Spin/Dip Coating	Proficient
	Fluorescence Microscopy	Proficient
	Scanning Electron Microscopy	Intermediate
	X-Ray Diffraction Microscopy	Intermediate
	Transmission Electron Microscopy	Basic
Programming	C/C++	Basic
	Python	Basic
	MATLAB	Basic
Soft-Skills	Design Thinking	Proficient
	Project Management	Proficient
	Business Development	Proficient
	Public Speaking	Proficient
	Lean Methodology	Intermediate
	Marketing	Intermediate
Office Productivity	Microsoft Office	Proficient
	Synology CMS	Intermediate

Language Proficiency

Spoken	English – fluent; Hindi – fluent
Written	English – Highly competent; Hindi – competent