

Yashvini Shukla

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About

Being an engineer puts me at the forefront of solving planetary existential issues, a responsibility that I passionately undertake.

Skills & Languages

Site Surveying	ArcGIS
HEC HMS	AutoCAD
GSA	MATLAB
HTML/CSS	Python
Aimsun	

Advanced, Intermediate, *Beginner*
English, Hindi, Gujarati, Kiswahili,
French

Awards/Honours

UCL Business Game

Won 3rd place in and startup entrepreneurship challenge.

Mayor's Entrepreneur Competition Finalist

Designed a reusable cup vending machine system ([CupMonkey](#)) which was chosen as 1 of the 10 finalists out of over 400 entries.

IGCSE – 7 A*, 2 A s

IBDP – 38 points

Dean's List: 3.78 GPA

RPI Spring Semester 2020

Reference: Dr. Daniel C. Lander

landed2@rpi.edu

Voluntary

Open Cages UK, Humane League and Aphasia

Reconnect UK Sept '17-19

Involved in setting up their events, digital editing using photoshop and playing games with aphasiac patients.

Hobbies & Projects

- Cycling, gliding, playing the guitar, Managing 2 social media pages
- Freelib website to exchange free books
- **Engineer - UCL Mars Rover and Lunar Rover Team**
Oct 18 – Mar 19
 - Helped the team present its entry in the competition through secondary research.
 - Worked on the combustion chamber team on deciding the optimal fuel for our rocket design.

Education

University College London Sep 17 – June 21

MEng Civil and Environmental Engineering with Year Abroad (Rensselaer Polytechnic Institute, NY, USA), Minor in Connected Systems, Numerical Analysis & Programming for Engineers, Spatio-Temporal Analytics & Big Data Mining.

Experience

Communications Assistant | EcoNomad Solutions Jan 18 – Present

www.economad.co.uk

- UCL Startup by Dr. Ian Adler where I learnt about ongoing research in making EcoNomad's solar pumps and biogas digesters in UCL's Pamela facility.
- Helped the team with social media outreach by maintaining its social media handles and brand.

Summer Internship | Beale Halai Sep 20 www.bealehalai.com

- Surveying and EDM instrument checks on a 3 storey commercial/residential unit.
- Monitoring cracks and making on-site reports.
- Quality checking steel and concrete works done by the contractors on site.

Fluids Undergraduate Researcher | Rensselaer Polytechnic Sep 19 – Aug 20

Languages/Frameworks: MATLAB with PIVMAT (Particle Image Velocimetry) addon

- Studying wake formation and shear layer in building under Dr. Daniel C. Lander, a leading researcher in shear layer thickness studies around bluff bodies.

Engineers Without Borders, USA | Rensselaer Polytechnic Sep 19 – Present

- I designed a plastic water tank with a concrete foundation for a trip in Nicaragua to take place in March 2020 and corresponded with the project Engineer and had valuable insight into the specifics of sustainable development in developing countries.

Transition Mentor | University College London Sep 18 – Dec 18

- I helped first year civil engineering students and answered their questions about the CEGE department and career advice related to navigating their academics and university life. I still have a good bond with some of them even after the official contract ended, and help them out in their queries.

UCLH Green Impact Assistant | University College London Jan 18 – Sep 18

Helped the UCL CECE lab decrease its carbon footprint by working with the lab assistant to adopt best practices for labs.

- Designed and published the hospital's first newsletter.

Work experience | Costain-Skanska Joint Venture (CSJV) 3 - 7 Jun 19

- Involved studying the team behind the noise insulation panels in the King's Cross Offices and being part of the site demolition. I also worked with the Quantity surveyor of the project to compensate residents in Camden, by using data analytical skills in excel to log complaints.

Teaching Assistant and Member | People Power Jan 18 – Sep 19

www.pplpwr.org.uk

- Conducted 2 workshops about solar panels and wind power in 2 schools around London. Worked with different engineers to produce a working lesson plan to teach design, development and other technical skills to children.

Extra-curriculars

Campaigns Officer | UCL Vegan and Vegetarian Society Jun 18 – Jun 19

- Worked on a University of London wide plan to make at least half of the food available be plant-based by 2020. Latest news; UCL is going fully vegetarian by 2021 from collective efforts.

Engineer | RPI Geowall Team Sep 19 – Present

- Part of the Geowall Congress Competition, USA to optimize retaining wall designs.
- Designing a Geowall made from paper to make innovations in retaining walls. Involves applying principles of soil mechanics to optimize our model design.