

Yashvini Shukla

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About

Ambitious, idealistic, and hardworking with a passion for the natural and built environment.

Education

University College London

Sep '17 – June '21;

MEng Civil and Environmental Engineering with Year Abroad (Rensselaer Polytechnic Institute, NY, USA);

Relevant coursework:

- Civil Engineering Design
- Engineering Challenges
- Applied Structures and Materials
- Mathematical Modelling and Analysis
- Soil Mechanics and Engineering Geology
- Fluid Mechanics
- Lampeter Field Trip (Surveying Skills)
- Constuctionarium (Norfolk)
- Geoenvironmental Engineering
- Materials Science for Engineers
- Applied Hydrology and Hydraulics
- Bedford Seminar (An Architect-Engineer collaboration)
- Connected Systems (IoT devices)

Skills

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

Advanced, Intermediate, Beginner

Awards/Honors

UCL Business Game

Won 3rd place in an 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.

Dean's List: 3.78 GPA

RPI Fall Semester 2020

Reference: Dr. Daniel C. Lander
landed2@rpi.edu

Experience

Fluids Undergraduate Researcher | Rensselaer Polytechnic Sep 19 – Present

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 | Rensselaer Polytechnic Sep 19 – Present

- I am currently designing a plastic water tank with a concrete foundation for a trip in Nicaragua to take place in March 2020.

Transition Mentor | University College London Sept 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.

Communications assistant | EcoNomad Solutions Jan 18 – Jan 19

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.

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

- Helped the UCL CEGE 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) 3rd-7th June 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 Volunteer | 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.

Organizations

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 | UCL Mars Rover and Lunar Rover Team Oct 18 – March 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.

Engineer | RPI Geowall Team Sep 19 – Present

- Part of the Geowall Congress Competition 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.

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.