

# Yashvini Shukla

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## About

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

## Skills

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

**Advanced,** Intermediate, *Beginner*

## Awards/Honors

### UCL Business Game

Won 3<sup>rd</sup> 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 Spring Semester 2020

**Reference:** Dr. Daniel C. Lander

[landed2@rpi.edu](mailto: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., Taking a voluntary steward role with Bloomsbury Festival.

## Hobbies/Projects

- Cycling, gliding, playing the guitar, Managing 2 social media pages; AIS Student Help and Wake; A people's initiative and photography & blogging.
- **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

### Summer Internship | Beale Halai **Sep 20** [www.bealehalai.com](http://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 2-** *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 **Sept 18 – Dec 18**

- I helped first year civil engineering students and answered their questions about the CEGE department and carrier 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 – Current**

[www.economad.co.uk](http://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 Member | People Power **Jan 18 – Sep 19**

[www.pplpwr.org.uk](http://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 | 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.