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# Sneha Pradhan

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## EDUCATION

**Boston University** *Boston, MA* — Computer Engineering B.S (*May 2017*)

## SKILLS

- **Programming Skills** — C/C++, Java, HTML5, CSS3, JavaScript, jQuery, Python, Git, MATLAB, Nightwatch.JS, Verilog

## PROFESSIONAL EXPERIENCE

- **Undergraduate Micro Drone Design , MIT; Boston, MA** (*Jan 2016- Present*)

I am currently working in a team of four to develop and redesign an underwater micro drone devised for inspection of submerged surfaces as well as monitoring bodies of water using various sensors. The project involved extensive use of Solidworks and rapid prototyping (3D printing) in SLA and FDM printers. I was mainly in charge of the coding and testing of the controls. Implemented a joystick configuration for easier and more intuitive control of the drone. Worked on a closed loop implementation between Arduino control, master/slave communications and sensor readout.

- **Intern, Cloudfactory; Kathmandu, Nepal** (*Jun 2015- Aug 2015*)

I interned at CloudFactory as a FrontEnd Developer for the summer of 2015. CloudFactory is tech company that provides an efficient method to transcribe image and videos services. It serves as a link between its cloud-workers and various companies in the US and the UK, who need to get their data transcribed. I was a part of the UI/UX team and I helped code web pages and write tests for the respective code. I learnt as well as enhanced my skills on Javascript, jQuery, HTML5 and CSS3. Moreover, I learnt valuable knowledge regarding platforms, servers, databases, Web Services such as AWS, and crowdsourcing.

- **ECE Lab Assistant, Boston University; Boston, MA** (*Sep 2015- Present*)

Currently working as an Lab Assistant in the Electrical and Computer Engineering Department at Boston University. My responsibilities include creating images for Professors in both Linux and Windows Operating Systems, closely working with the Engineering IT Department and maintaining the various computer and electrical labs in the ECE Department.

## PERSONAL EXPERIENCE

- **Personal Projects** — Webpage Development, Heartbeat Monitor using Arduino Uno, Bounce Computer Game written in Python, Clock Timer written in MATLAB
- **Student Clubs** — Engineers Without Borders, MakeBU
- **Language Skills** — English, Mandarin, Nepali, Hindi

## RELEVANT COURSEWORK

Introduction to Software Engineering, Applied Algorithms, Microprocessors, Computer Organization, Electric Circuit Theory, Introduction to Electronics, Introduction Logic Design, Programming with MATLAB, Probability Theory in ECE, Discrete Mathematics