Sarvajanik College of Engineering & Technology
Computer Engineering Department

A Report on Interaction with Alumni

Organized by
Computer Engineering Department

Coordinated by
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Alumni
Er. Anurag Vasanwala

On
7 th April, 2017

The Computer Engineering Department of SCET had organized a session on **"IoT Cloud (Particle Cloud)"** for the B.E third year students on 7th April, 2017 initiated by the SCET Alumni Association under the banner of "Share What I Gain".

The intuition behind the talk was to impart knowledge about current trends in **Internet of Things (IOT)** and to give an insight to the students on the use of Arduino and Particle Photon. The talk also aimed at motivating the present students to achieve their career goals in the field of IoT.

In all 92 students of third year Computer Engineering from both the shifts had attended this session along with a few faculties from the CO department. This session was conducted at 10:30 am.

About the Alumni:

The brief profile of the speaker is as follows:

The speaker (Er. Anurag Vasanwala) has completed his B.E. (Computer Engineering) from SCET in 2015.

His career profile is as follows:

Er. Anurag Vasanwala was a consultant at Hackster.io (www.hackster.io is a community dedicated for learning hardware) for Windows 10 IoT. During the year 2015-16 he was a research intern under the guidance of Associate Professor Janak Patel from SVNIT, Surat. Further, in the later part of 2016 Anurag took up the position of Junior R&D Engineer at Lexus SoftMac – Octonus. Recently he has moved ahead in his career and has taken the job as an R&D Engineer and Tech Evangelist @ Applied Singularity Pvt Ltd, Bangalore.

All the past and current job profiles of Anurag are related to Robotics and IoT. He has been actively working on Robots, Home Automation System, Touch Panels, Low Level Firmware and PCB Designing.

Apart from his job profile, he is an active community member of Hackser.io and HackInOut. In 2016 he was also made one of the moderators and international ambassador at Hackster.io. In 2016, he was also made the judge, mentor and head at Hack InOut, SVNIT. Anurag also won a prestigious Microsoft event and secured 1st rank in the world. A project proposed by him with CK Pithawala - Autonomous Water Vehicle was awarded the 1st prize in Gujarat by NASSCOM.

Highlights of the interaction:

We indeed had a wonderful time listening to and learning from Er. Anurag Vasanwala. His enthusiasm was infectious and his zeal to explain IoT from a beginer's perspective made the session worthwhile for the students as well as the faculties. Given below are the highlights of how the session proceeded.

- **A discussion about the basics for IoT**

  - The speaker was very enthusiastic and in the beginning talked about the difference between the micro controller Arduino and Raspberry Pie.

  - Further, he discussed about the various Arduino boards available which included UNO, MEGA , PRO Mini and many others. The website he suggested to select the board of your choice is : https://www.arduino.cc/en/main/products/

  - Further, he mentioned that endless applications can be connected to Arduino.

  - He also cleared the basic concepts of the students about the difference between input and output devices with a focus on sensors. These are important constituents for IoT.

- **The discussion and demo of Particle Photon**

  - The speaker then introduced Particle's full stack IoT device platform that gives you everything you need to connect IoT to the web.

  - Further, he explained that Particle Photon has the unique feature of an in-built wi-fi and discussed the differences between Arduino and Photon.

  - The code for Photon was demonstrated in C and was run on an online IDE https://login.particle.io/build. Photon collected the data and sends it to/from the cloud.

  - Further he showed a live demo for Particle Photon along with a deployed C code to blink an LED. This was further extended by controlling the LED from an app in the mobile phone. The students were ecstatic at seeing things working like a miniature IoT project. This gave them numerous possibilities for expansion and various project ideas.

- As future expansion, he said that expansion boards can also be used for larger circuits and if a simulator is needed, the website that can be used is www.123circuit.io.

- We would also like to acknowledge and appreciate the efforts of our alumni Er. Rahul Kalathiya who was helping Er. Anurag with these demonstrations.

- **<u>Advice to the students as an alumni</u>**

  - The speaker was very enthusiastic and interactive and answered numerous questions from the curious students

  - His most motivational sentence was that he was still a student at heart and hence, his humility was commendable and something to learn from.

  - He advised the students to pursue their Masters after their B.E so that they can climb the hierarchy in the industry faster.

  - Further, Er. Anurag also advised the students to follow good coding practices as those are the things that interviewers at industries are looking for.

  - All in all, it was a highly interactive and informative session and we have also invited Anurag if possible to spare some time for us and conduct a workshop for students on IoT.

Some glimpse of the alumni session:

In the pictures below, you can see a few glimpses of the talk given by Er. Anurag Vasanwala and assisted by Er. Rahul Kalathiya.

Welcome Address by Prof. Bintu Kadhiwala

The expert speaker - Er. Anurag Vasanwala

Welcoming the guest - by Prof. Nirali Nanavati

Er. Anurag explaining the basics about circuits used in IoT

An engrossed audience

Basics about Arduino v/s Particle Photon being discussed

An interactive question and answer session

A live demo of Particle Photon - Students were excited to see the actual hardware

More questions answered for the enthusiastic audience

A momento given to our alumni on behalf of SCETAA by Prof. Bintu Kadhiwala

A Vote of Thanks to the speaker by Prof(Dr.) Nirali Nanavati