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Govt.ModelEngineeringCollege
(CUSAT)
Kochi

ACADEMICS

COURSE	INSTITUTION	AGGREGATE	YEAR
B. Tech (Electronics and Communication Engineering)	Govt. Model Engineering College, Kochi (CUSAT)	73.33%	2010-2014
Class XII	Bhavan's Vidya Mandir, Girinagar (CBSE)	88.8%	2010
Class X	Bhavan's Vidya Mandir, Girinagar (CBSE)	89%	2008

SKILLS

- Technical Skills: C, C++, Assembly Language Programming in 8085, WHCK Testing , html5 ,css 3.
- Tools/Technologies: Matlab, WHCK Studio.
- Operating Systems known: Windows.
- Areas of Interest: Mathematics, Digital Electronics, Network Theorems (Electronics).

WORK EXPERIENCE

- **Company: Broadcom** **Post: Test Engineer** **May 2014 - Present**
  - Role: Ensuring Compatibility of Broadcom's WLAN products with Microsoft's Hardware Certification Specifications.
  - Technology: **Windows Hardware Certification Kit.**
  - Set up Webrelay Quad in all testbeds to facilitate remote rebooting and thereby ensuring high efficiency as testbeds run smoothly overnight.

Company: BSNL **Post: Intern** **Duration: 2 weeks**

- Summer training on Telecom Technologies conducted by BSNL Ernakulam, May 2012.

PROJECTS

- **Projects**: **Virtual Keyboard and Mouse using Image Processing** **Duration: 5 months**
  - Implemented virtual mouse and keyboard using matlab software . Users are able to work in either mouse mode or keyboard mode at a time . Laser projetors project the layout of the keyboard. Light cut from IR LED are detected by IR camera. Image processing technology implemented by matlab is inturn used to convert this into key/mouse press events which gets displayed in monitor.
- **Project: Automatic Trash Basket** **Team Size: 5** **Duration: 3 months**
  - A basket that automatically opens its lid when user comes sufficiently close to the basket. User can then place the waste in a plate placed just below it. This plate segregates it into two cavities(metal/non-metal). There is also a level indicator to report the level of waste in the cavities.The lid no longer opens if any of the cavities full.
  - Role: **Debugging, Study and collection of components**.
  - Technology: PIC Microcontroller.
- **Project: Smart House** **Team Size: 4** **Duration: 1 month**
  - A small project did in first year as a part of Excel 2010. It was a project to make a house "smarter" exploring the existing technologies.

SEMINARS

- **Seminar: Performance Of 3D IC's (TSV Approach)**

The paper provides an in-depth study of power and thermal issues while incorporating physical design characteristics unique to 3d integration. It also provides a qualitative perspective of the power and thermal dissipation issues in 3-D and study the impact of Through Silicon Vias (TSVs) size for their mitigation. Based on detailed power distribution and heat dissipation models, it presents a comprehensive analysis of TSV tapering for alleviating power and thermal integrity issues in 3-D ICs.

ACHIEVEMENTS

- Gate 2014 qualified with a GATE Score of 589
- Smart House project (model), was awarded as the best project in MEC Labs in Excel 2010, the national level techno-managerial symposium of Govt. Model Engineering College.

INTERESTS AND ACTIVITIES

- Active member of Mixed Signals, the association of Electronics and Communication Engineering students of the college.
- Presented paper on "Virtual keyboard and mouse using Image Processing in the National conference on emerging trends in VLSI, Embedded systems and Signal Processing held at Model Engineering College,Thrikkakara.

REFERENCES

- Mr. Dilshan A Kunhi , Broadcom Corporation Email id: dkunhi@broadcom.com
- Prof. (Dr) Jayasree V K, HOD, Electronics and Communication Engineering, Govt. Model Engineering College, Thrikkakara. Email id: jaya@mec.ac.in.