YATISH JOSHI

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Educational Background:-

University of Maryland Baltimore County (UMBC)
Degree: PhD Graduation Date: Dec 2015
Major: Computer Engineering GPA: 3.89/4.0

University of Maryland Baltimore County (UMBC)
Degree: Master's Graduation Date: 2011
Major: Computer Engineering GPA: 4.0/4.0

Delhi College of Engineering (University of Delhi)
Degree: Bachelors Graduation Date: 2006 (First Class)
Major: Electronics & Communication Engineering

Six Sigma Green Belt Certification

Language Skills: Fluent in English, Creole, French and Hindi.

Skill Set:-

Languages: C, C++, Python, Computational Geometry.
Cadence Tools: PCB Editor, Design Entry CIS, Virtuoso Schematic Composer & Layout Editor
Version Control: Clearcase, Clear Quest, MS Visual Source Safe

Work Experience:-

Employer: Dept. of Computer Engineering, University of Maryland Baltimore County
Position: Lecturer
Undergraduate Course: Operating Systems **Present***
Undergraduate Course: Discrete Structures **05/15-07-15**
Undergraduate Course: Principles of Digital Design **08/14-12-14**
Undergraduate Course: Discrete Structures **05/14-07-14**
Undergraduate Course: Discrete Structures **05/13-07/13**
Undergraduate Course: Discrete Structures **05/12-07/12**

Employer: Dept. of Computer Engineering, University of Maryland Baltimore County
Position: Teaching Assistant

Undergraduate Course: Principles of Digital Design **07/15-08/15**
Conduct Electronics Labs on basic gates, flip flops and state machine design.

Undergraduate Course: Principles of Electronic Circuits **01/12-05/12**
Conduct Electronics Labs on Transistors and their Applications.

Graduate Course: High Speed Digital Design **01/11-05/11**
Conduct labs for high speed PCB design for graduate students.

Undergraduate Course: Capstone **08/10-12/11**
Setup a new PCB lab for manufacturing single and double layer PC boards.
Teach and assist undergraduate & graduate students with the usage of Cadence Tools: Design Entry CIS & PCB editor for designing and fabricating PCB boards.
Monitor and provide guidance to undergraduate students in their final year Capstone projects.

Employer: Samsung Electronics, Suwon, South Korea
Position: Project Management Intern **6/10-8/10**
Managed Visual Display projects carried out by Samsung subsidiaries in Samsung Headquarters Korea. Responsibilities included verifying requirement specifications, design

documents, resolving technical issues between the hardware & software teams, drafting proposal of new projects and resource allocation and management.

Employer: Samsung India Electronics Pvt. Ltd
Position: Senior Engineer (Visual Display R&D), 7/2006-7/2009
Led and worked in a global team in charge of design & development of CRT and LCD Televisions for the hospitality market.

- Design & development of new television models. Responsibilities involved initial board bring up, S/W programming and development of communication protocols in C/C++ to interface with different vendor set-top boxes.
- Prepared project reports detailing requirement specifications, high level design, detailed level designs and unit test reports.
- Trained new employees on embedded systems and C programming.

Projects Undertaken:-

- Development of Saturn4 (450HD/550FHD) DVB TVs for European/Asian Markets. Board Bring up, Programming in C++.
- Development of Series 3 & Series 4 Samsung LCD TVs for hospitality segment. Board Bring up, Programming in C.
- Development of the bestselling EasyView CRT televisions for Asian Markets. Programming in assembly and C.

Achievements:-

- Excellence award for Best Hard Work in 2008.
- Best Employee (Quarterly) award in 2008.
- Winner of Best Project & Best Attitude awards in 2007.

Employer: Division of Information Technology, UMBC 9/09-6/10
Position: Help Desk Consultant
Provided hardware & software solutions to users of UMBC IT services.

Publications:-

- **Yatish K. Joshi** and M. Younis, " Exploiting skeletonization to restore connectivity in a Wireless sensor network ", in Computer Communications, July 2015.
- **Yatish K. Joshi** and M. Younis, " Straight Skeleton Based Reconnection in a Wireless Sensor Network ", in the Proceedings of the 57th IEEE Global Telecommunications Conference (Globecom'14), Austin, TX, December 2014.
- **Yatish K. Joshi** and M. Younis, " Mobility-based Internetworking of Disjoint Segments ", in the Proceedings of the *27th Queen's Biennial Symposium on Communications (QBSC'14)*, Ontario, CA, June 2014.
- **Yatish K. Joshi** and M. Younis, "Distributed Approach for Reconnecting Disjoint Segments ", in the Proceedings of the *56th IEEE Global Telecommunications Conference (Globecom'13)*, Atlanta, GA, December 2013.
- **Yatish K. Joshi** and M. Younis, "Autonomous Recovery from Multi-node Failure in Wireless Sensor Network ", in the Proceedings of the *55th IEEE Global Telecommunications Conference (Globecom'12)*, Anaheim, CA, December 2012.

Prof Activities & Awards:-

- UMBC Dissertation Fellowship 2015.
- Reviewer for IEEE Local Computer Networks (LCN), 2015.
- Session chair for IEEE Global Telecommunications Conference (Globecom), 2014.
- Reviewer for Computer Communications (Elsevier), 2013.
- Reviewer for The Computer Journal (Oxford Journal), 2011.