



Puskar Budhathoki

System Engineer

Profile

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Other Info

DOB: 1986/04/14

Gender: Male

Status: Married

Highly competent software engineer with MS degree in Computing and Information Science with research focused on design automation and 5+ years of professional experience in Japanese automobile and manufacturing industry in desktop application development, automation tools development along with designing, developing and testing software's in different platforms; Strong programming background in different platforms; Experience in developing innovative and creative software solutions and automation tools; Experience with cutting edge software development tools; Professional communication skills along with strong background in technical documentation.

Objective

Seeking for position to excel career in software development, automation tool development, business application development, which offers professional growth while being resourceful, innovative and flexible in a stimulating and challenging environment.

Professional Experience

03/16 - Now Software Engineer

MiSUMi Group Inc., Tokyo, Japan

Worked in different CAD design automation tools and knowledge based database projects. Next product recommendations, BOM-3D CAD recommendation, pattern finder in CAD assemblies, automatic feature recognition tool, CAD shape generator using XML, WebAPI development for client-server communication and request handling, native data conversion etc are some of the project that I was involved in.

09/14 - 01/16 Research Engineer

Masdar Institute of Science and Technology, Abu Dhabi, UAE

Investigation in fast thermal-driven 3D floorplanning optimization and thermal analysis

06/14 - 08/14 Research Scholar

IBM TJ Watson Research Center, Yorktown Heights, NY, USA

Energy efficient cloud computing/ Scalability issues in cloud computing environment

09/12 - 06/14 Research Assistant

Masdar Institute of Science and Technology, Abu Dhabi, UAE

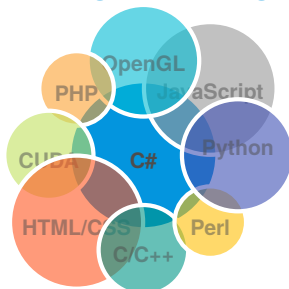
Investigation in Multi-Objective Optimization of 3D Floor-Planning and Placement

07/13 - 08/13 Research Scholar

Vodafone Chair, TU Dresden, Germany

MultiObjective Optimization of 3D Floor-planning, Impact of Thermal TSV's in 3D stacked Alpha21264 processor

Programming



Personal Skills



OS Preference

Windows ★★★★★
Ubuntu ★★★★★
Linux ★★★★★

Database

MySQL ★★★★★
SQLServer ★★★★★
Neo4jGraph ★★★★★

Languages

Nepali ★★★★★
English ★★★★★
Japanese ★★★★★
Hindi ★★★★★

03/09 - 08/12 System Engineer

[E&T Nepal Pvt. Ltd.,](#)

Development of post processor (viewer) software used for Analysis and Simulation as a team leader, Optimization of Moving Particle Semi-Implicit method in terms of calculation time and memory, Research on two phase fluid, fuel tank, wheel forging and gear box simulation

09/07 - 02/09 Software Developer Intern

[E&T Nepal Pvt. Ltd.,](#)

Homepage development of the company: Word press CMS is used for the blog section. Similarly SMF is used for the forum section of a company, e-Governance: A web application developed to store all types of information of village development committee

Education

2012 - 2014 Master in Computing and Information Science [Masdar Institute of Science and](#)

[Technology, Masdar City, Abu Dhabi, UAE](#)

CGPA: 3.5/4.0

Thesis: "Multi-Objective Optimization of 3D Floor-Planning and Placement"

Advisors: Dr. Andreas Henschel and Dr. Ibrahim Elfadel

Courses taken: Data Mining, Design and Analysis of Algorithms, Software Engineering, Distributed Systems, Techniques in AI, Managing Technology and Innovation

2005 - 2009 Bachelor's Degree in Computer Engineering [Advanced College of Engineering](#)

[and Management, Kuponhole, Kathmandu, Nepal](#)

GPA: 76.84/100

Thesis: "E-Bidding System"

Courses taken: C, C++, Computer Graphics, Database System, Computer Networks, Information Technology etc.

Publications

Budhathoki, Puskar, et al. "Integrating 3D Floorplanning and Optimization of Thermal Through-Silicon Vias" Book chapter in Elfadel, Ibrahim Abe M., and Gerhard Fettweis, eds. *3D Stacked Chips: From Emerging Processes to Heterogeneous Systems*. Springer, 2016.

Joshi, Bikash, et al. "Software Clone Detection Using Clustering Approach." *International Conference on Neural Information Processing*. Springer International Publishing, 2015.

Budhathoki, Puskar, Andreas Henschel, and Ibrahim Abe M. Elfadel. "Thermal-driven 3D floorplanning using localized TSV placement." *IC Design and Technology (ICIDT)*, 2014 IEEE International Conference on. IEEE, 2014.

Budhathoki, Puskar, et al. "Integration of thermal management and floorplanning based on three-dimensional layout representations." *Electronics, Circuits, and Systems (ICECS)*, 2013 IEEE 20th International Conference on. IEEE, 2013.

Honors & Awards

- *Best Master Thesis Award 2014* 06/14
- *International Renewable Energy Agency Scholar* 09/12-05/14
- *Certificate of Achievement for IRENA Scholarship programme* 06/14
- *Full Scholarship for graduate study* 09/12-05/14

Conferences & Workshops

- *Oral Presentation in ICICDT Conference, Austin, Texas, USA* 06/14
- *Oral Presentation in TwinLab Workshop, Dresden, Germany* 07/14
- *Training in Silicon Cloud Pilot Program, Abu Dhabi, UAE* 05/14
- *Poster Presentation in iMicro Openhouse, Abu Dhabi, UAE* 01/14
- *Poster Presentation in ICECS Conference, Abu Dhabi, UAE* 12/13
- *Oral Presentation in TwinLab Workshop, Abu Dhabi, UAE* 06/13

Community Service

- *Social service through Rotract club of Charumati* 03/08- 08/12
- *“Professional Development officer” in Rotract Club of Charumati* 08/10- 07/11

References

- *Prof. Ibrahim Elfadel, Masdar Institute of Science and Technology*
iefadel@masdar.ac.ae
- *Prof. Andreas Henschel, Masdar Institute of Science and Technology*
ahenschel@masdar.ac.ae
- *Prof. Hubertus Franke, IBM TJ Watson Research Center*
frankeh@us.ibm.com
- *Bijendra Rajbanshi, Manager, E&T Nepal Pvt. Ltd*
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