

# Ph.D. RESUME

**Kushal P. Aryal**

<http://www.linkedin.com/pub/kushal-aryal53/365/296>

125 International Drive  
Rolla, MO 65401

(573) 578—4565  
[kpa3l56@mail.mst.edu](mailto:kpa3l56@mail.mst.edu)

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|------------|--|----------------------------------|
| Objective  | To obtain a full-time position as a Systems Engineer   |                                  |
| Education  | Missouri University of Science and Technology (Rolla, MO)<br><b>Ph.D. Systems Engineering</b><br><u>Dissertation</u> : “A novel method to evaluate Systems Architecture During early stage of Systems Engineering Process.”  | May 2015<br><b>GPA: 4.0/4.0</b>  |
|            | <b>M.S. Systems Engineering</b><br><u>Thesis</u> : “Evaluation of Systems Architecture using Computational Intelligence Methods.”  | May 2013<br><b>GPA: 4.0/4.0</b>  |
|            | Kathmandu University (Kathmandu, Nepal)<br><b>B.S. Computer Engineering</b>  | May 2011<br><b>GPA: 3.8/4.0</b>  |
| Experience | Missouri S&T—Systems Engineering Department<br><b>Graduate Research Assistant</b> <ul style="list-style-type: none"><li>• Explored previous research endeavors into fields of study to identify potential research topics</li><li>• Summarized literature to support and define current and future research endeavors</li><li>• Examined draft work of research and literature for errors prior to submission</li><li>• Analyzed sound patterns with a recognition toolkit in order to provide accurate speaker identification</li><li>• Evaluated regular student performance</li><li>• Facilitated student understanding and provided feedback</li></ul> | Rolla, MO<br>Aug 2013 — present  |
|            | <b>Graduate Teaching Assistant</b> <ul style="list-style-type: none"><li>• Taught <i>Introduction to Systems Engineering</i> classes</li><li>• Directed laboratory experiments, supported students with recitations and graded homework</li><li>• Assisted undergraduate research groups with engineering and social events</li><li>• Organized, classified and completed inventory for engineering equipment</li></ul>  | Aug 2012 — May 2013              |
|            | Ozark Business Solutions<br><b>Information Technology Manager</b> <ul style="list-style-type: none"><li>• Purchased, installed, and maintained all desktop computers, networking, and communication equipment</li><li>• Provided user support and training to both local and remote employees via personal visits, telephone, email, and web conferencing</li><li>• Responsible for maintaining network security for corporate and federal government contract records</li><li>• Managed a support contract for installing network infrastructure and providing user support</li></ul>   | Rolla, MO<br>Jan 2012 — May 2013 |

Chabahil Engineering Firm

Kathmandu, Nepal

**Network and Computer Repair Intern**

Jan — Aug 2011

- Installed and configured wireless networks
- Debugged software and hardware systems
- Secured and maintained customers' networks via remote access
- Established and maintained relationships with current and future clients

**Skills**

Computer:

Unigraphics

NX5-7.5

DOOR5

MATLAB

Autodesk Inventor

Adobe InDesign

Adobe Photoshop

FTP Networking

Mathematica

HTK

SAS

Design Expert

MiniTab

MS DOS

Visual Basic 2.0

Languages:

English

Arabic

French

**Publications**

**Aryal, K.P.** and Wiley, J. "Evaluation of Systems Architecture using a Fuzzy Neural Networks." Systems Engineering, 13(2), 121-129, 2013.

Wiley J. and **Aryal, K.P.** "Executable Systems Architecture using SYSML and Neural Networks." Systems Research Forum, Vol. 8. No. 1. World Scientific Publishing Company, 2013.

**Presentations**

Application of Computational Intelligence Methods in Systems Architecture, EMSE 410 Graduate Research Seminar, April 6, 2013.

Modern Trends in Evaluating Systems Architecture, INFORMS annual meeting, Minneapolis, Minnesota, October 7, 2012.

**Honors & Activities**

Missouri University of Science & Technology—Vice Chancellor Fellowship  
INCOSE—Missouri University of Science & Technology chapter—**President**  
Graduate Research Showcase—**First Place Winner**