Nischal K.N

PERSONAL DATA

DATE OF BIRTH: 3^{rd} July 1992

ADDRESS: No.22, Central Street, 5th Block, Kumara Park West, Bangalore-

560 020, India

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EDUCATION

JUNE 2014 Bachelors of ENGINEERING, M.S.Ramaiah Institute of Technology, Banaglore

Major: Electronics and Communication

GPA: 9.56/10

MAR. 2010 2nd Year Pre University, Seshadripuram Composite PU College, Banaglore

PERCENTAGE: 93.33%

MAR 2008 CBSE 10th Grade, Sindhi High School, Banaglore, India

PERCENTAGE: 90.80%

PROFESSIONAL EXPERIENCE

Current Embedded Systems Engineer at L12 Innovations Pvt Ltd., Bangalore

JUNE 2014 Development of Brahma3, India's first Indigenous 3D printer

JULY 2011 - Intern at Li2 Innovations Pvt Ltd., Bangalore

MAY 2014 Worked on Robotics and Automation using AVR microcontrollers and Product develop-

ment using MSP430 and Atmega controllers

PROJECTS

JULY 2014 Cognitive Intelligence for Perception in a Humanoid is a proof of concept

to propose a novel architecture to link high-level cognitive skills to the per-

ceptual and physical abilities of a humanoid robot.

SUPERVISOR: Prof. M. S. Srinivas

JUNE 2012 Unmanned Ground Vehicle for the 20th Intelligent Ground Vehicle Competi-

tion held at Oakland University, USA. Lead a team that designed and developed an autonomous vehicle capable of lane detection, obstacle avoidance and GPS

navigation. Secured 6th position in the event.

SUPERVISOR: Dr. S. Sethu Selvi

JULY 2012 Less3(<3) a rural health care monitoring system comprising of non-intrusive

sensors for measuring heath rate, blood pressure and body temperature and

real time monitoring over GSM system.

DEC. 2013 Direct Calibrated Analog Sensor Interface, a VLSI project to develop a simple

interface for analog sensors with calibrated direct readable outputs.

MAY 2012 Li-Fi (Light Fidelity), a proof of concept of high speed data transmission over

visible light.

ACADEMIC PUBLICATIONS

DEC. 2013 Face Recognition using Entropy-augmented face isolation and Image folding as pre-processing techniques presented in an international conference INDICON-2013 organized by IEEE India council held at IIT, Bombay.

DOI: 10.1109/INDCON.2013.6725928

OCT. 2014 Correlating Night-Time Satellite Images with Poverty and Other Census
Data of India and Estimating Future Trends accepted at second ACM India
SIGKDD Conference on Data Sciences 2015.

SOFTWARE PROFICIENCY

LANGUAGES: C, Python, Sketch

DEVELOPMENT PLATFORMS: Visual Studio, Matlab, Code Composer Studio

LIBRARIES: OpenCV

WORD PROCESSING: LaTeX, Microsoft Word

HARDWARE PROFICIENCY

8 BIT MICROCONTROLLERS: AVR, 8051 16 BIT MICROCONTROLLERS: MSP430

PCB DESIGN: Express PCB, Eagle CAD

MICROPROCESSORS: x86, Intel Atom

CERTIFICATIONS

JULY 2011 Advanced Embedded Systems course organized by Brics India Pvt. Ltd. Feb. 2009 Robo I workshop by Li2 Innovations Pvt Ltd.

SCHOLARSHIPS AND AWARDS

2014 Best Achiever award for the outgoing batch of 2014.

2014 Best project award by MSRIT alumni association for the final year project titled Cognitive Intelligence for Perception in a Humanoid.

2010 - 2014 Ministry of Human Resource and Development, Government of India Scholarship.

OTHER ACTIVITIES

2013-14 Chairperson of IEEE MSRIT Student Branch.

2012-13 Vice-Chairperson of IEEE MSRIT Student Branch.

2011 Represented MSRIT at Student Leadership Congress.

2008 Represented Sindhi High School at All India CBSE Project exhibition.

2007-08 First Prize at Website Design Competitions conducted by JIRS and Rotary Club.

REFERENCES

Dr. S. Sethu Selvi
 Head of the Department,
 Dept of Electronics and Communication,
 M.S.Ramaiah Institute of Technology,
 Bangalore - 54

Email id: selvi@msrit.edu

. Mr. Arvind Nadig Managing Director, Li2 Innovations Pvt Ltd., No.361, 2nd Floor, Shree Bhagavathi complex, Gokula 1st stage, Bangalore- 54 Email Id: an@li2.in