

SURYANARAYANA MURTHY MUDDALA

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TECH INTERESTS

Computer Vision, Machine Learning, 3D Video, Multi view processing, Pattern Recognition, Communications and Signal Processing

WORK

EXPERIENCE

Cipherstone Technologies, Goteborg, Sweden

Position: Consultant in Computer Vision and Machine Learning
(December 2017 -)

- Investigating and developing a weather detection model to compensate luminance estimation.
- Investigating and developing a view-compensation model using single view geometry.

Smart Eye, Goteborg, Sweden

Position: Developer in Deep Learning and Computer Vision (November 2018 – Feb 2019)

Zenuity (Client Veoneer), Goteborg, Sweden

Position: Developer in Computer Vision (February 2018 - July 2018)

- Developing a model and testing Lane marking interpolation method.
- Team member in developing and testing a free space detection method.

Facebook (PRO Unlimited Global Indian Private Limited), Bangalore, India

Position: Tech. Coordinator in Computer Vision and Machine Learning
(August 2016 - December 2017)

- Investigating various data imagery and extract core features using different ML models.
- Developing a geo-coding solution for un-mapped areas using Computer Vision and Machine Learning tools.

Mid Sweden University, Sundsvall, Sweden

Position: Graduate Researcher (March 2011 - August 2015)

- Investigating and developing new rendering algorithms for 3DTV and free view point TV.
- Investigating and developing new texture synthesis (inpainting) methods for disocclusion handling.

Blekinge Institute of Technology, Karlskrona, Sweden

Position: Research Student (August 2010 - Jan 2011)

- Investigating the possibilities for 3D video and image in handheld devices.
- Multiple camera calibration and depth extraction.

Blekinge Institute of Technology, Karlskrona, Sweden

Position: Research Student (September 2009 - March 2010)

- Investigating different types of active noise control systems to reduce noise in radial fan.
- Design and developing new active noise control methods.

Blekinge Institute of Technology, Karlskrona, Sweden

Position: Teaching Assistant (May 2009 - June 2009)

- Demos on signal analyzers and IDEAS software.

EDUCATION

- PhD** **Mid Sweden University**, Computer and System Sciences,
(*March 2011-June 2015*)
Dissertation: “Free View rendering for 3D Video – Edge-Aided Rendering and Depth-Based Image Inpainting”
Advisors: Prof. Mårten Sjöström & Dr. Roger Olsson.
Committee: Prof. Ulf Assarsson, Asso Prof. Jan Thim, Dr. Federica Battisti and Prof. Christine Guillemot.
- MS** **Blekinge Institute of Technology**, Electrical Engineering,
(*March 2007-June 2009*)
Thesis: “Active Control of Radial fan”
Advisors: Dr. Sven Johansson & Dr. Martin Larsson
- BTech** **Jawaharlal Nehru Technological University**
Electronics and Communication Engineering,
(*August 2002 – May 2006*)

COMPUTER SKILLS

Programming: C, C++, Python
Libraries: Open Source Computer Vision (Open CV), Tensorflow and keras

PROFESSIONAL TRAINING

- Attended Summer School**
- Remote Engineering summer school on computer vision in Blekinge Institute of Technology, Sweden, 2010.
 - European Cooperation in Science and Technology (COST) Action: 3D media and computational architecture in Tampere University of Technology, Finland, 2012.
 - Plenoptic capture, processing and reconstruction in Mid Sweden University, Sundsvall, Sweden, 2013.

- 3D content creation, perception and interaction in Budapest, Hungary, 2014.

AWARDS

Best Paper Award, 2017

Robocodes: Towards Generative Street Addresses from Satellite Imagery.

Best Student Paper Award, 2013

Developing a new method for handling disocclusions using Inpainting.

Best Student Project Award, 2009

Enhancing of images, which are affected by various noises.

PUBLICATIONS

All the publications are listed in Google scholar

<https://scholar.google.com.sg/citations?user=dyMM7f8AAAAJ&hl>

LANGUAGES

Telugu: Native Language

English: Fluent

Swedish: Intermediate

Hindi: Basic

OTHER

<https://suryanm-muddala.github.io/>

Reviewer to the Journal of Visual Communication and Image Representation