SHREYAS RAMAKRISHNA

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EDUCATION

Vanderbilt University *Nashville, Tennessee*
Ph.D. in Electrical Engineering *Aug 2017 – Present*
Research Affiliation: Institute for Software Integrated Systems
Overall GPA: 3.7/4

Technical University Kaiserslautern *Kaiserslautern, Germany*
Masters in Electrical engineering and Information Technology *June 2015*
Overall GPA: 3.65/4 (Converted German grades)

Visvesvaraya Technological University *Bangalore, India*
Bachelor of Electrical and Communication Engineering *July 2012*
Overall percentage: 84

Coursework: Machine Learning, Reinforcement Learning, Cyber Physical Systems, Embedded Systems, Distributed Systems, Operating Systems, Networking.

PROFESSIONAL EXPERIENCE

Apsis Solution Bangalore, India
Embedded Design Engineer *Sep 2015 – March 2017*

- Designed Embedded Software for several military and commercial products.
- Involved in integration and software testing of embedded platforms.
- Experience with programming embedded platforms like PIC, ARM, and Raspberry Pi.

MasterSkills Learning Solutions Bangalore, India
Research Intern *Feb 2012 – May 2012*

- Intern project "Mixed mode Real-time VLSI implementation of a shunting inhibition cellular neural network".
- Involved in designing circuits, VHDL code development, and testing.

PHD RESEARCH

DARPA Assured Autonomy March 2018-Present

- Designed tools for system-level safety assurance and dynamic risk assessment of autonomous vehicles.
- Designed deep learning regression and classification controllers, and time-series anomaly detectors.
- Involved in designing automation tools for design, development, and testing of autonomous robot testbeds.
- Experience with simulators like TORCS, CARLA, and real datasets like NuScenes, Ford, and Waymo.

TEACHING EXPERIENCE

- Introduction to Computer Engineering *Aug 2017*
- Operating System *Jan 2018*
- Resilient Distributed System *Aug 2018*

TECHNICAL SKILLS

Programming	Python, C, and Java (basic).
Machine learning	TensorFlow, Pytorch, Keras, Numpy, Scipy, and Scikit-learn.
Cloud & Database	Amazon Web service, Google Cloud platform, MongoDB, and InfluxDB.
Hardware Platforms	Raspberry Pi, NVIDIA Jetson, PIC and ARM Cortex M3.
Tools & Editors	Spark, Docker, Jupyter, Conda, PyCharm, Git, Latex, and Microsoft Office.
Operating Systems	Windows, Linux, and MAC OS X.

ACHIEVEMENTS

- Publication "Augmenting Learning Components for Safety in Resource Constrained Autonomous Robots." nominated for best paper at ISORC 2019.
- Awarded tuition scholarship for undergraduate studies by the Ministry of HRD, Govt. of India.