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: 3.6/4

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.