Adith Boloor

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in /in/adith-jb/
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Experience

2016 –	Washington University in St. Louis Graduate Researcher Developed an image compression method to perform convolution in a camera sensor in the analog domain Published paper that modifies the camera lens to amplify the strength of adversarial attacks Published paper in which we successfully attacked self-driving vehicle's deep neural net- works to cause lane infractions and collisions.
	Head TA of Computer Vision course with Prof. Ayan Chakrabarti in Fall 2020 Lead over 20 undergraduate researchers to use PiCar platform for studying and optimizing power management with reinforcement learning
2018 – 2018	Opcoder AI Software Developer Startup to utilize Natural Language Processing (NLP) algorithms to improve hospital billing processing speed by assisting human coders
2014 - 2014	Purdue M2M Lab Undergraduate Researcher Developed HARMS (Humans, Agents, Robots, Machines, Sensors) protocol for integrating UGVs and humanoid robots to aid in fire rescue scenarios Programmed and calibrated Darwin-OP humanoid robots' locomotion gaits to allow nav- igation to the fire source and to enable fire suppression.

Education

2018 - · · · ·	Ph.D. Computer Science Washington University in St. Louis, USA
2016 – 2017	M.Eng. Robotics Washington University in St. Louis, USA
2015 - 2015	B.S. Mechanical Engineering Shanghai Jiao Tong University, China <i>Engineering Term Abroad</i>
2012 – 2016	B.S. Mechanical Engineering Purdue University, West Lafayette, USA

Skills

Concepts	Machine Learning, Artificial Intelligence, Robotics, Adversarial ML, Computer Vision, AI on Edge
Coding	Python, Linux, C
AI specific	PyTorch, Tensorflow, Huggingface, AWS
3D engines	Blender, Unreal Engine, Godot, Unity

Miscellaneous Experience

Awards and Achievements

2023	CSRMP Accepted into the Google Computer Science Research Mentorship Program
2019	Jane Self-driving Algorithm Third, Carla Autonomous Driving Challenge, CVPR
2001	OpCoder AI Second, Discovery Competition, Washington University
2017	PiCar Project Top 10, Silk Road Robotics Innovation Competition, Xi'an, China
2015	Project GreenLight Top 5, BoilerMake Hackathon, Purdue University
2014	Speech Controlled Quadropod First, Micro-controllers Contest, Instructables

Research Publications



for cooperative fire security system using harms," in 2015 6th International Conference on Automation, Robotics and Applications (ICARA), IEEE, 2015, pp. 411–415.