ANAND K SUBRAMANIAN

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WORK EXPERIENCE

Nov 2023 - Present	**Machine Learning Engineer -** **Bodygram**, Tokyo
	Developing Deep-Learning solutions for accurate human body measurement and understanding. Technologies: `Docker, Pytorch, PCL, Python`
Feb 2022 - Nov 2023	**Senior Computer Vision Engineer -** **DeepX Inc**, Tokyo
	Developed Deep-Learning solutions for automating heavy construction vehicles like excavators and trucks. Worked predominantly on 3D computer vision, and point-clouds. Tasks include object detection, segmentation, tracking, and Sim2Real. Technologies: `ROS2, Docker, Pytorch, PCL, Python, C++`
Oct 2019 - Jan 2022	**Research Engineer -** **NABLAS Inc**, Tokyo
	Successfully built and delivered Deep-Learning solutions for industrial anomaly detection with real-world constraints. Tasks include zero-shot anomaly detection, accelerated distributed neural network training, and optimizing neural networks for efficient inference on NVIDIA edge-devices. Technologies: `Docker, Pytorch, ONNX, Python`
Feb 2019 - May 2019	**Visiting Researcher -** **RIKEN-AIP**, Tokyo
	Research Topic - Scaling up Gaussian Process using fast variational inference. Responsible for implementing the code for the research topic and running various experiments. Technologies: `TensorFlow, Python`
Jul 2015 - Feb 2017	**Project Associate - ADI DSP Lab, IIT Madras**, India
	Developed low-cost ultra low-power prototypes for smart fire-alarm system (Patented and now commercialised). Responsible for circuit design, prototyping, and developing embedded DSP applications.

EDUCATION

Oct 2017 - Dec 2019	**Master's Degree in Information Science** (MEXT Scholar)
	Japan Advanced Institute of Science and Technology (JAIST), *Japan*
	JAIST Best Outgoing Student Award 2019
	JAIST President Award 2019
	MEXT (文部科学省) Scholarship 2017
	Thesis - *Normalizing Deep Learning models for Embedded Robotics*
	Publication -
	Mean Spectral Normalization of Deep Neural Networks for Embedded Automation. IEEE CASE 2019, doi: 10.1109/CASE.2019.8842955.
Aug 2011 - May 2015	**Bachelor of Technology in Mechatronics Engineering**
	SRM University, *India*
	First Class with Distinction - CGPA *8.89*
	Thesis - *Goal Searching algorithms for small robot swarms*
	Publication -
	Estimation of Optimum Robot Heading Using Savitzky-Golay and Kalman Filters. International Journal of Robotics and Automation. 1.2 (2016): 01-09. doi: 10.37628/ijra.v1i2.25