DILIP KUMAR

Chennai, TN, India | P: +91 9655424492 | hello@jdilipkumar.com | linkedin.com/in/thedilipkumar

EXPERIENCE

VisAI Labs – Chennai, India
Project Lead, Computer Vision & AI Solutions   *August 2019 – Present*

- Starting from scratch, created a Proof of Concept for Access Control Device using Deep Learning based Face Recognition technology with an engineering cost of 10,000 USD in 8 months.
- Researched 5 different edge computing hardware to understand cost/performance ratio and shortlisted two devices for the design of anomaly detection and people/vehicle tracking solution.
- Mentored and groomed a team of 3 to become top performers in the ML / Data Analytics domain.

e-con Systems – Chennai, India
Project Lead, Camera Products & Research   *April 2018 – July 2019*

- Built and led a team of 12 Engineers and Sr. Engineers to launch 6 camera products in quick succession for the Nvidia Jetson family of edge SoCs & for the NXP i.MX series of application processors.
- Implemented the product development process using agile method & Jira tool for engineers to follow which maintained quality of deliverables while reducing SDLC time by 50%.
- Proposed and implemented modular design for multi camera products which resulted in development of 3 products with the same time and resources. Effectively reducing engineering cost by 300%. Also led to increased customer satisfaction.

Senior Project Engineer, Camera Research & Development   *April 2017 – March 2018*

- Spearheaded the research and study about Nvidia TX2 ISP and integrated 1st sensor driver in the organization leveraging ISP features. This led to the launch of e-con's first product partnering with Nvidia.
- Designed and implemented a system architecture & protocol for camera modules used in 15+ products. This led to more transparency with customers while protecting organisational trade secrets and generated positive reviews for the company products.
- Promoted within 12 months due to strong performance and organizational impact.

Project Engineer   *June 2013 – March 2017*

- Developed world's 1st third-party imaging sensor driver for Nvidia Jetson TK1 which paved way for the 1st off-the-shelf camera product for the most popular community developer kit at that time. This paved way for e-con becoming a Nvidia 'Preferred Partner' for worldwide camera solution requirements.
- Built a proof of concept augmented reality application using ARToolKit and OpenGL to promote the capabilities of Jetson TK1 camera and to earn customer design wins.
- Won the 'Emerging Engineer' award for showcasing cross-functional traits and being a top performer in the engineering department.

LEADERSHIP

Jyothi Apartment Association - Chennai, India
Secretary and Chairperson   *April 2019 – Present*

- Modernised the infrastructure by installing a cloud connected CCTV network with 6 cameras for monitoring intruders.
- Fixed the long running issue of water availability by renovating the borewell and installing standby motor pump, automated level controller to provide 24x7 water supply to all homes in the apartment complex.

EDUCATION

Anna University – Chennai, India   *2016*
Master of Business Administration, Technology Management

Kumaraguru College of Technology – Coimbatore, India   *2013*
Bachelor of Engineering, Electronics & Communication Engineering

ADDITIONAL

Technical: Deep Learning, Machine Learning, Computer Vision, Embedded Systems, Edge Computing, IoT, MIPI CSI2, Camera Application, V4L2, UVC, USB, I2C, Linux Device Driver, OpenCV, Proof of Concepts (POC), Research and Development (R&D)

Hardware Platforms: Google edgeTPU, Intel Myriad X, Jetson Nano GPU, Xilinx FPGA, Nvidia TX1 TX2 Xavier, NXP i.MX6 i.MX8

Soft Skills: Communication, Mentorship & Coaching, Leadership, Marketing, Strategic Thinking

Languages: Fluent in Tamil & English. Basic Hindi.

Certifications & Training: Transitioning to Product Management (LinkedIn Certification), Machine Learning for Business Professionals (Coursera Certification)