# KISHORE REDDY PAGIDI, M.S.

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## EXPERIENCE

**Dassault Systèmes Americas Corp** **Aug 2023 - Current**
**SOLIDWORKS Product Manager**

- Developed a future-proof product vision for humanoid robot manufacturing, leveraging AI insights, and shared it to 150 leaders.
- Led AI-driven innovations like Picture to Sketch, Generative Drawing, Shape to 3D, reducing design effort by 30%.
- Engaged over 20 customers to gather direct feedback, refining the content strategy and product offerings.
- Created comprehensive content library across all SOLIDWORKS offerings for AI model training and RAG implementations.
- Designed and built a website for content economy using AI and accelerated product development by 30%.
- Analyzed and tested AR/VR CAD competitors, contributing to SOLIDWORKS milestone definition.
- Led webinars and videos, achieving 2.4 million views and 20k+ engagements, significantly amplifying product visibility.
- Developed and structured 'Value Delivered,' 'What to Sell,' and 'What to Plan' strategies for the next 18 months.
- Organized 5 campus wide events in NAM Headquarters to create a sense of belonging and empowered 2000 employees.

**Northeastern University**
**Graduate Teaching Assistant – Mobile Robotics** **Jan 2023 – Apr 2023**

- Resolved diverse hardware and software issues for 50+ students, facilitating the creation of autonomous mobile robots.
- Developed a user-friendly docker container with advanced visualization features.

**Mercedes-Benz R&D North America**
**Software Engineering Intern – Autonomous Driving** **Jun 2022 – Jan 2023**

- Independently created algorithms in C++ to derive standard definition (SD) maps from high-definition (HD) maps.
- Applied expertise in diverse HD map formats (OpenDrive, OSM, MyRoute) for precise and efficient map conversion.
- Filed 4 utility patents, enhancing road safety in the field of perception and IoT.
- Developed a U-Net-based TensorFlow model with image augmentation techniques with 99.3% accuracy.

**Suzuki Motor Corporation**
**Product Design and Development Engineer** **Jul 2019 - Aug 2021**

- Optimized ADAS sensor integration, including cameras and radars, with maximal features and cost reduction by 8%.
- Seamlessly integrated sensors into vehicle body with minimal cost impact, reducing expenses by 12%.
- Optimized over 1000 robotic welding arm spot gun packages through targeted design improvements.
- Reviewed literature and achieved 14% cost savings in front underbody through continuous improvement initiatives.

**Graduate Engineering Trainee – R&D** **Jul 2018 - Jul 2019**

- Built a model-based design tool to predict wear and tear reducing design cycle time by 2 months.
- Won the Best Graduate Engineering Trainee award among 252 new hires.

## EDUCATION

**Northeastern University (NEU)**, Boston, MA **Sep 2021 - Jul 2023**
Master of Science in Robotics, Concentration: EECE 3.95/4 CGPA

**National Institute of Technology Calicut (NITC)**, Kozhikode, India **Aug 2014 - May 2018**
Bachelor of Technology, Mechanical Engineering 7.78/10 CGPA

## SKILLS

**Languages/Libraries:** C++, Python, MATLAB, PyTorch, TensorFlow, OpenCV, ROS, CUDA, Linux.
**Software/Hardware:** QGIS, JOSM, CARLA Simulator, PyBullet, Raspberry Pi, Docker.
**Artificial Intelligence:** Computer Vision, Machine Learning, Deep Learning, GNNs, RNNs, GANs, Transformers.

## PROJECTS

**Paper Publication - CORL 2023** **Jan 2023 – Jun 2023**

- Conducted experiments on object re-arrangement tasks like mug on a tree, bowl on a mug, and bottle in a container; achieved above 80% success rate even with one demonstration.
- Enhanced grasp prediction accuracy by leveraging data fusion from 3 RGB-D cameras and innovative object detection techniques, resulting in a 20-fold reduction in required training data; research submitted to CORL 2023.