

# Disha Das

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## EDUCATION:

- Georgia Institute of Technology**, M.S. in Computer Science (Computational Perception & Robotics) **08/2019 to 12/2020**
- [Master's Project: Spider Robot Motion Planning Optimization using Factor Graphs](#)
  - 3.64/4.00 Cumulative GPA
- Veer Surendra Sai Institute of Technology, India**, B.Tech in Electronics & Telecommunication **07/2012 to 07/2016**
- [Thesis: Enhancing Image Contrast- A Novel Approach Incorporating 2D Histogram Equalization](#)
  - 8.13/10.00 Cumulative GPA

## PROFESSIONAL EXPERIENCE:

- Upwork Freelancer, India** **10/2023 to Present**
- Worked on multiple projects involving LLMs, Streamlit Applications, Data Engineering pipelines in Azure
- Business Analyst, Altum Solutions, Dallas, TX** **01/2022 to 10/2023**
- Developed Dashboards, Queries using WQL and maintained Boards on Azure DevOps and PowerBI
  - Migrated data and dashboards from Azure DevOps to PowerBI using Azure-Devops API for developing CAPEX reports
- Tools:** Python, Azure CLI, Azure-Devops SDK, PowerBI Desktop, Azure DevOps
- Robotics Research Volunteer, Georgia Institute of Technology, Atlanta GA** **05/2020 - 12/2020**  
*School of Interactive Computing - Prof. Frank Dellaert*
- Contributed extensively to [GTDynamics](#), a C++ library that allows the user to express the full kinodynamics constraints of an arbitrary robot configuration on a factor graph.
  - Designed and implemented [motion planning of Octopod](#) configuration using Factor Graphs
  - Worked on Factor Graphs, GTSAM, Simultaneous State Estimation and Optimal Control
- Graduate Teaching Assistant, Georgia Institute of Technology, Atlanta GA** **05/2020 - 12/2020**
- CS6476: Computer Vision, Dr Devi Parikh
  - CS4001: Computing & Society
- Business Technology Analyst, Deloitte Consulting India Pvt Ltd, India** **11/2016 to 05/2018**
- As FP&A Tester, worked on testing financial reports and input forms using SAP BPC tool and MS Excel
  - Developed Anaplan model for Retail Planning, built modules and dashboards for buyers for Retail planning
- Tools:** SAP BPC 10.1, MS Excel Add-In (EPM), MS PowerPoint

## RESEARCH PROJECTS:

- Ultra-fast Seam Carving for Real Time Object Detection and Removal ([Read more](#))** **08/2019 to 12/2019**
- IEEE International Conference on Computational Photography(ICCP)(2020) Poster
  - Introduced hardware and algorithmic speedups to modify the Seam Carving algorithm so that it can be run to remove objects from videos in real time.
- Evaluation of 3D Object Detection for Cars by improving existing frameworks ([Read more](#))** **01/2020 to 04/2020**
- Compared and improved upon two 3D object detection DL frameworks, PointRCNN and Frustum ConvNet on the Kitti dataset
- Comparing the performance of Generative Models for Vector Drawing generation ([Read more](#))** **01/2020 to 04/2020**
- Experimented with DCGAN, Sketch-pix2seq, VAE-CNN on vector drawing generation and compared performance with our own VAE based model
- Obstacle Avoidance for Kinematically Redundant Mobile Manipulators ([Read more](#))** **01/2020 to 05/2020**
- Implemented obstacle avoidance algorithms under different scenarios using GTSAM library for a 6-link mobile manipulator arm
- Human Acceptance of Unpredictable Behaviors in Fully Driverless Ride-Hailing Services ([Read more](#))** **08/2020 to 12/2020**
- Survey based project comparing the leniency shown to errors caused by human drivers vs AVs under different scenarios

## SKILLS:

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| <ul style="list-style-type: none"><li>• Strong command of Python, C++ and MATLAB</li><li>• Proficiency in PyTorch, OpenCV, ROS</li><li>• State Estimation, SLAM, Optimal Control</li></ul> | <ul style="list-style-type: none"><li>• NeRF, 3D and 2D Computer Vision</li><li>• LLM Frameworks, Langchain, Openai API</li><li>• Data Mining, Data Pipeline building</li></ul> |
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