David A. Parham

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A dynamic and results-oriented Computer Vision Engineer with a Master's degree, leveraging 7.5 years of proven expertise in programming, advanced problem-solving, and a track record of exceeding employer expectations within the IT industry.

WORK EXPERIENCE

Visual Computing Engineer
Alexandra Institute

03/2023 - Present — *Copenhagen, Denmark*

Employment in the visual computing department.

Tasks

- Conceptualizing and implementing client tailored solutions
- Leveraging a fusion of classical computer vision techniques and advanced deep learning methodologies
- Proficiently navigating projects involving 2D and 3D data, encompassing both training and visualization aspects
- Ensuring seamless integration of cutting-edge-technologies into industry workflows and product development processes

Contact : Katrine Hommelhoff - katrine.hommelhoff@alexandra.dk

Master Thesis
Capra Robotics ApS

03/2022 - 10/2022 — *Aarhus, Denmark*

Employment in the software development department.

Tasks

- Advancing autonomous outdoor navigation through innovative data-driven methodologies
- Leveraging cutting-edge technologies such as Lightweight OpenPose for precise pose estimation and ST-GCN for robust action classification
- Implementing and testing cutting-edge technologies for real-time analysis of video streams
- Augmenting the system with gaze estimation and proximity measurement algorithms

Contact : Mads Bendt - mkb@capra.ooo

EDUCATION

Msc. Eng. Autonomous Systems
Technical University of Denmark (DTU)

08/2020 - 10/2022 — *GPA (danish scaling system): 10*

Relevant Courses

- Perception for Autonomous Systems
- Introduction to Artificial Intelligence
- Object Classification with Few-Shot Learning
- Deep Learning
- Deep Learning Approaches for Damage Limitation in Car-Human Collisions
- Optimization and Data Fitting

SOFT SKILLS

Adaptability | Detail oriented | Teamwork | Resilient | Communication | Fast learner | Problem Solving

SKILLS

Python	●●●●●
DL libraries (PyTorch & TensorFlow)	●●●●○
OpenCV	●●●●○
Git	●●●○○
Docker	●●●○○
Linux	●●●●○
PostgreSQL	●●●○○
Cloud (AWS, GCP, Azure)	●●○○○
CI/CD	●●○○○

RELEVANT PROJECTS

University Project: Track different Objects on a conveyer belt (04/2021 - 05/2021)

- **Course: Perception for autonomous systems**.
- **Objective**: The first objective was to pre-process (calibrate and rectify) a data set. The second objective was to implement an occlusion-resistant 3D tracking system that would track objects on a conveyor belt. The last objective was to create a custom dataset and train a deep learning model that can classify 3 different objects.
- **Aquired Skills:** Pytorch, ray, 3D cloud processing, object pose estimation, establishing an image classification pipeline.

University Project: Implementation and Hyperparameter optimization ofthe Soft-Actor-Critic Algorithm (10/2020 - 01/2021)

- **Course: Deep Learning**.
- **Objective**: Implement the soft actor critical algorithm (reinforcement learning approach) from scratch and evaluate its performance through the OpenAI Gym environments Cartpole-Balance, Cartpole-Swing-Up and Walker.
- **Aquired Skills:** Pytorch, optuna, implementing a model from a research paper, use environments from the Open AI Gym suit, and how entropy-maximising off-policy learning works.

LANGUAGES

German	●●●●●
English	●●●●○
Spanish	●○○○○
Danish	●●●○○