

PROFESSIONAL EXPERIENCE

Tesla, Palo Alto	
Senior Autopilot Software Engineer	Aug 2025 - Present
<ul style="list-style-type: none">Fine-tuning end-to-end driving models with reinforcement learning (GRPO) to improve behavior in reduced-visibility scenariosDeveloped lane-change evaluation metrics in an internal video-generation simulator to quantify safety/performance tradeoffs for candidate policies	
Autopilot Software Engineer	Feb 2025 – Aug 2025
<ul style="list-style-type: none">Adapted the Lane Departure Avoidance feature for rear-wheel-steer dynamics and deployed it on Cybertruck (prerequisite for 5-star NCAP)Implemented reduced-visibility slowdown logic currently deployed to the Robotaxi fleetBuilt an MPC error-tracker that forward-simulates 0.5s of MPC dynamics from control inputs and compares to SLAM ground truth for model-mismatch diagnosis and controller retuning	
Autopilot Software QA Engineer	Jan 2024 – Feb 2025
<ul style="list-style-type: none">Led platform-specific development and evaluation for the first FSD release on Cybertruck, shipped to ~30,000 vehiclesDeveloped comfort evaluation suites for end-to-end driving models (e.g., excessive decel/accel, overly conservative speed), plus camera occlusion and emergency-vehicle detection evals, using both open-loop and closed-loop simulationEstablished validation processes to correlate automated comfort metrics with operator feedback, enabling data-driven deployment gating	
PROM Racing NTUA (FSAE), Athens	
Head of Autonomous Driving Software	Oct 2021 - Aug 2023
<ul style="list-style-type: none">Founded and led a 10-member team to develop and deliver an autonomous race car over a 2-year timelineFine-tuned and deployed a YOLOv5 object detection model on a TPU to detect track cones in real timeDesigned, trained, and deployed a ResNet-based keypoint detector on an iGPU for cone distance estimationProposed and implemented a YOLOv8 variant with an additional regression head to directly estimate cone distance, using knowledge distillation from the existing perception stack and human labelsDeveloped an Extended Kalman Filter (EKF) fusing IMU, wheel-speed, and steering data to estimate the vehicle’s kinematic stateBuilt a graph-based SLAM system using the iSAM algorithm for real-time cone and vehicle localizationDesigned and validated a dynamic Model Predictive Controller (MPC) for path tracking	
Alexander Moore SA, Athens	
Data Science Intern	Mar 2021 – Jul 2021
<ul style="list-style-type: none">Built a regression model to forecast product demand, reducing prediction error by 50% over existing approachesDeveloped a neural network using tf-idf features to classify customer feedback as positive or negative, achieving 96% accuracyDesigned a recommendation system based on customer similarity for a pharmaceutical supplier	

EDUCATION

National Technical University of Athens, Greece	Oct 2017 - Feb 2024
Integrated Master’s (BE/ME) in Electrical and Computer Engineering	
Thesis: Design and Implementation of an Autonomous Driving System for a Formula Student Driverless Car	
GPA: 9.3/10.0	

TECHNICAL SKILLS

Programming languages: Python, C++, C

CV/ML/DL frameworks: OpenCV, scikit-learn, PyTorch

Languages: Greek (native), English (fluent)