

PROFESSIONAL EXPERIENCE

<b>Tesla, Palo Alto</b>	
Senior Autopilot Software Engineer	Aug 2025 - Present
<ul style="list-style-type: none"><li>Fine-tuning end-to-end driving models with reinforcement learning (GRPO) to improve behavior in reduced-visibility scenarios</li><li>Developed lane-change evaluation metrics in an internal video-generation simulator to quantify safety/performance tradeoffs for candidate policies</li></ul>	
Autopilot Software Engineer	Feb 2025 – Aug 2025
<ul style="list-style-type: none"><li>Adapted the Lane Departure Avoidance feature for rear-wheel-steer dynamics and deployed it on Cybertruck (prerequisite for 5-star NCAP)</li><li>Implemented reduced-visibility slowdown logic currently deployed to the Robotaxi fleet</li><li>Built 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</li></ul>	
Autopilot Software QA Engineer	Jan 2024 – Feb 2025
<ul style="list-style-type: none"><li>Led platform-specific development and evaluation for the first FSD release on Cybertruck, shipped to ~30,000 vehicles</li><li>Developed 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 simulation</li><li>Established validation processes to correlate automated comfort metrics with operator feedback, enabling data-driven deployment gating</li></ul>	
<b>PROM Racing NTUA (FSAE), Athens</b>	
Head of Autonomous Driving Software	Oct 2021 - Aug 2023
<ul style="list-style-type: none"><li>Founded and led a 10-member team to develop and deliver an autonomous race car over a 2-year timeline</li><li>Fine-tuned and deployed a YOLOv5 object detection model on a TPU to detect track cones in real time</li><li>Designed, trained, and deployed a ResNet-based keypoint detector on an iGPU for cone distance estimation</li><li>Proposed and implemented a YOLOv5 variant with an additional regression head to directly estimate cone distance, using knowledge distillation from the existing perception stack and human labels</li><li>Developed an Extended Kalman Filter (EKF) fusing IMU, wheel-speed, and steering data to estimate the vehicle’s kinematic state</li><li>Built a graph-based SLAM system using the iSAM algorithm for real-time cone and vehicle localization</li><li>Designed and validated a dynamic Model Predictive Controller (MPC) for path tracking</li></ul>	
<b>Alexander Moore SA, Athens</b>	
Data Science Intern	Mar 2021 – Jul 2021
<ul style="list-style-type: none"><li>Built a regression model to forecast product demand, reducing prediction error by 50% over existing approaches</li><li>Developed a neural network using tf-idf features to classify customer feedback as positive or negative, achieving 96% accuracy</li><li>Designed a recommendation system based on customer similarity for a pharmaceutical supplier</li></ul>	

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)