ANIL SAYAR

info@anilsayar.com | linkedin.com/in/anilsayar05 | github.com/KardasLand

EDUCATION

Marmara University	Istanbul, Turkey
Bio Engineering, Dual Diploma	*2023 – 2027*
International University of Sarajevo	Sarajevo, Bosnia and Herzegovina
Genetics and Bio Engineering, Dual Diploma	*2023 – 2027*

EXPERIENCE

Co-Founder & Lead Software Developer — 2022 – Present
Neo Stellar Ltd. — *Remote*

- Developed a ROS2 flight controller and ground control station software for unmanned aerial vehicles
- Implemented a company intranet for the company with Kubernetes with Cloudflare Zero Trust.
- Published an AI powered SaaS research assistant using Spring, React with established codebase via Git.
- Automated deployment pipelines with Gitlab CI/CD, Kubernetes and Docker.
- Gained expertise in communication of aerial vehicles
- Gained experience in QT/QML and Python for ROS2 flight controller and ground control station.

Software Developer & Founder — Sep 2024 – Present
Scienvera — *Remote*

- Explored methods to automate deployment pipelines to handle 1K+ users in production environment
- Built an AI Powered microservice Spring infrastructure in Java to make research easier for students
- Gained experience in React with Typescript for user experience
- Deployed and managed Scienvera as scalable microservices on Kubernetes

PROJECTS

Scienvera – AI-Powered Academic Search Engine | *Java, Kubernetes, Spring, React* — Sep 2024 – Present
scienvera.com

- Designed a vector-based semantic search pipeline using sentence-transformers and cosine similarity for matching research abstracts
- Utilized Redis for caching results and optimized latency under high-concurrency academic search loads
- Integrated Spring Cloud Gateway and Kubernetes for service routing, discovery, and failover in a distributed microservice setup
- Configured CI/CD pipelines using GitLab CI/CD and Docker to enable rapid, automated deployments
- Implemented full-stack authentication with OAuth2 and JWT to protect API endpoints and user data

AvaSYS2 Ground Control System | *C++, Qt6, GStreamer, OpenCV, MAVLink* — Apr 2025 – Aug 2025
Github Link

- Developed a modular ground control application in C++/Qt (QML frontend & C++ backend) with a real-time dashboard for drone telemetry and live video streaming
- Integrated MAVLink protocol over UDP and Serial using a custom Mavlink Manager class to handle commands (arm/takeoff/RTL) and telemetry updates for multiple vehicles
- Implemented video ingestion pipeline using GStreamer and OpenCV to decode H.264 streams and render them via QQuickPaintedItem in the UI
- Built networking layers to authenticate and transmit telemetry data to Teknofest server with OpenSSL-secured HTTP.
- Designed reusable QML components (CompassGauge, StyledGauge, main/panels) with live-updating vehicle state using Qt signal-slot interop.
- Configured build system using CMake to manage dependencies (Qt6, OpenCV, GStreamer, MAVLink, OpenSSL) and support cross-platform builds.

TECHNICAL SKILLS

Languages: Java, C++, Python, C#, SQL (Postgres), JavaScript
Frameworks & Libraries: React, Spring & Spring AI, Node.js, Selenium, WPF, JUnit, Qt/QML, ROS2, WordPress
Tools & Platforms: Git & Gitlab, Kubernetes, Docker, Gazebo, LaTeX

HONORS & COMPETITIONS

Finalist – Savaşan IHA Category | *Teknofest 2025* — May 20 – July 18
Github Link

- Achieved all technical milestones and qualified for finals; disqualified only due to hardware failure before video submission
- Developed GPS pursuit and QR code guided "kamikaze" mission algorithms using Qt/QML and ROS2 for flight control
- Created a Teknofest replica server with Java to simulate real competition servers and share vehicle data for the AvaSYS ground control system