



# Maritime Informatics & Robotics Summer School 2025

Team Kevin

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## Introduction

*Before there was Kevin, there was us...*

The Maritime Informatics & Robotics summer school program took place from June 18th to June 28th. Between our lectures and labs, Team Kevin made the most of the trip and explored Ermoupolis and Kini.



## Ferry from Athens

Somewhere on the Aegean Sea between Athens and Syros.



## Apollon Hotel

We made the most of our stay in Kini and visited the beach and great restaurants.



## University of the Aegean

The first day of class started in the old classroom at university in Ermoupoli.



## Ermoupoli

Between our classes, we ventured around the beautiful port town.



## The Library

This was the site of our boat test.

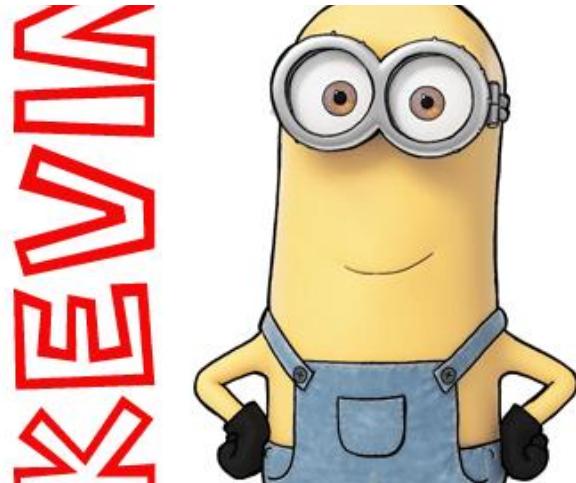


### The Lab

Our labs took place in the old casino building by the square.

## Lab 00 - Team Building, Introduction, and Assembly

Our story began in a lab, where a beautiful boat caught our attention. The yellow base, combined with the sleek black, inspired us to name our boat **Kevin**, after the critically acclaimed movie 'Despicable Me'.



But Kevin was only half of a boat, who yearned to be whole. Our team was eager to dive into the learning guide and began building our boat using the pieces provided. We spent the next few hours putting the pieces together and bringing Kevin to life.

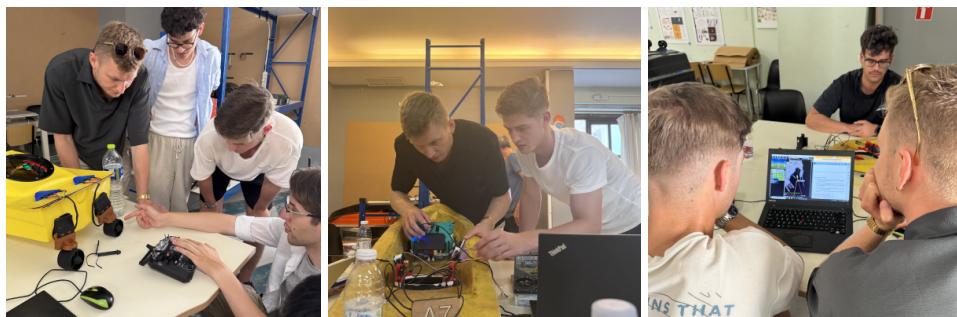


Building Kevin

## Lab 01 & 02 - Ardupilot software installation and configuration

Once Kevin had a body, it was time to grant him a mind and soul. First, we needed to download Ardupilot and install the proper tools for simulation. The program allowed us to connect our GPS and see where Kevin moved. We were also shown the controller and learned how to connect the motors to the controller's movement, allowing for our boat to take flight.

At this stage, it was exciting to see the physical connected to the software and watch the pieces start to fall into place. Slowly, Kevin was becoming real...



Setting up Ardupilot

## Pool Test - RC Testing and fine-tuning

Kevin was looking great...now it was time to see if he would sink or swim. We anxiously awaited for our turn in the testing

pool; fine-tuning the design of Kevin and making sure he was ready to go.

Finally, it was Kevin's time to shine. We placed him in the water and watched as he expertly moved forward and backward, propelled by the powerful motors and Máté's driving. The test was a complete success and only made us more eager for Kevin to take on the ocean.



Team photos



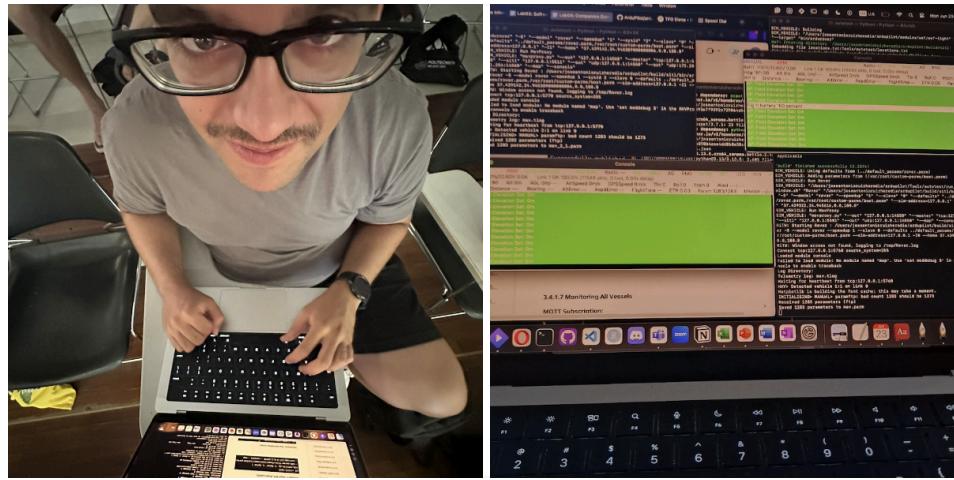
Kevin at the Pool Test

## Lab 03-06 - Software in the loop, autopilot and collision avoidance

Kevin had managed to survive the first trial, but there was still something missing...

After 4 days of existence, it was now time for Kevin to grow up. The first step was for him to gain some autonomy and make his own decisions. With our guidance and expert coding, we programmed him to be able to avoid collisions and navigate with autopilot.

Now, Kevin had the power...



Our expert coder Jose and his code

## Sea Trial

Finally, the big day was here! Kevin was ready to take on the great waters of the Argean Sea. We arrived at the port to meet Kevin, but to our utter horror, he was stripped bare. An evil, unnamed villain took parts off his yellow body...poor Kevin. :(



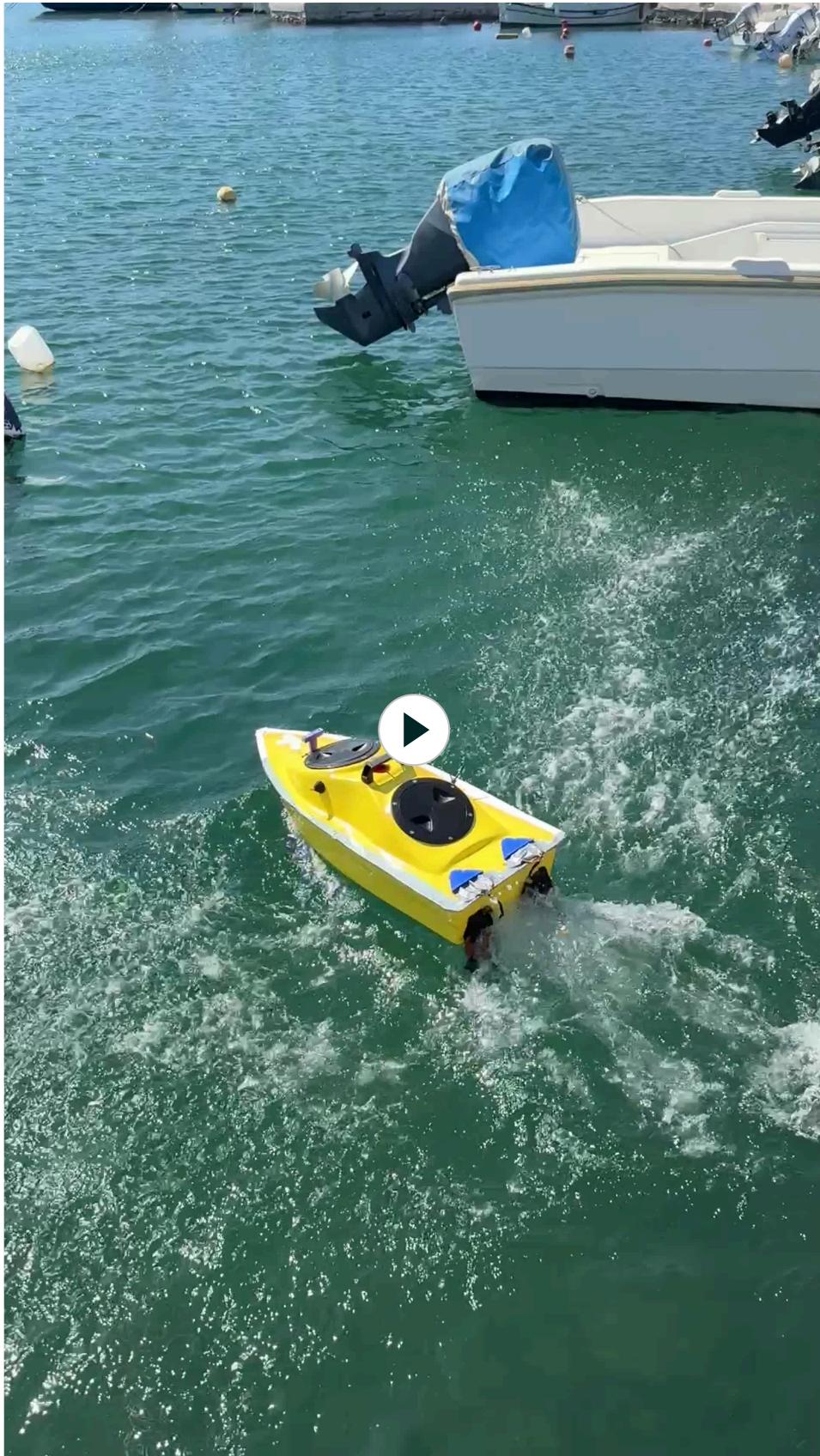
Kevin without motors

But not to fret, for Kevin was quickly restored and ready to take part in the trial. He was thrown into the sea, where he quickly gained momentum and spluttered away. Our lead driver eagerly took control and steered him into the distance. At times, he became disconnected, and we could not reach him. But we believed in Kevin, and he persevered. We watched, with tears in our eyes, as he swam, spun, circled, and dipped to his heart's content.

It was clear from this trial that Kevin was born to be a winner. With one hurdle completed, it was now time for the race...



Photos from Sea Trial



Kevin's first swim

## Conclusion

Now all that awaits Kevin is to win the race. With the confidence of our team by his side, we believe Kevin can

accomplish anything. In the wise words of Kevin himself, "Bee do bee do bee do."



Team Kevin

