

Community & Outreach Submission

MM Nautronics — Middle East Technical University (METU)

Introduction & Vision

At MM Nautronics, representing Middle East Technical University (METU), we believe that advancing autonomous underwater vehicle (AUV) technology goes hand in hand with fostering an active, collaborative engineering community. Our outreach strategy focuses on sharing technical knowledge publicly, creating meaningful industry connections, and maintaining a healthy, sustainable internal team culture.

Campus Engagement & Institutional Backing

To bridge the gap between academic theory and industry practice, we organize "Mech Talks," a technical seminar series open to the entire university body. In a recent session, we hosted an industry specialist from Fotoniks to discuss advanced optical systems and defense technologies. Our impactful presence on campus was recently recognized by the "Adım ODTÜ" university support platform, which selected our autonomous subsea project for official backing. As part of this initiative, we are currently planning a comprehensive, university-wide public presentation to introduce marine robotics and our team's engineering journey to the wider student population.

Industry Exposure & Hands-On Learning

We prioritize direct exposure to industrial environments to refine our engineering perspectives. We organized an exclusive technical field trip to Nurol Makine, a major defense and manufacturing corporation. This visit allowed our entire team to observe large-scale assembly lines and industrial quality control protocols firsthand, directly influencing how we approach mechanical design and material selection for our subsea platforms. Additionally, we actively engage the campus community through interactive public events, such as a high-energy "Red Zone" experience organized in partnership with Vodafone. This completely free event allowed us to engage with a non-technical audience, effectively sparking widespread student interest in engineering projects.

Digital Outreach & Open-Source Advocacy

Our digital footprint is a core pillar of our global outreach. We actively maintain our official website to share project updates and extensive documentation—a platform that proudly earned 10th place for technical website design at RoboSub 2025. Believing that innovation thrives on collaboration, we maintain our software libraries completely open-source on GitHub, lowering the entry barrier for other marine robotics enthusiasts. Furthermore, we actively manage tailored social media streams across LinkedIn, Instagram, and TikTok, adapting our communication style from professional industry updates to dynamic, behind-the-scenes engineering content to maximize engagement across diverse platforms.

Internal Continuity & Team Sustainability

Sustaining our team dynamics is crucial for long-term project viability. Every academic year begins with a rigorous technical training and orientation program designed to hand down practical manufacturing and robotics skills from senior leads to new recruits. Beyond technical excellence, we hold monthly team-wide gatherings that begin with technical progress reviews and transition into social bonding activities, including playing board games and hosting movie nights, ensuring our members remain deeply motivated and connected.

Official Digital Platforms & Repositories

Official Website: <https://www.mmnautronics.com/en>

GitHub Repository: https://github.com/yusufeskin/nautronics_auv

LinkedIn Profile: <https://www.linkedin.com/company/metu-mech-nautronics>

Instagram Account: <https://www.instagram.com/mmnautronics>

TikTok Channel: <https://www.tiktok.com/@mmnautronics>