



Enio Krizman

Nationality: Croatian **Date of birth:** 15/04/1999 **Phone number:** (+47) 00000000

Email address: enio.krizman@ntnu.no

LinkedIn: www.linkedin.com/in/enio-krizman-b1885b27a

Website: <https://github.com/kr1zzo/>

Website: <https://www.ntnu.edu/employees/enio.krizman>

Home: 1.241 Professor Mørchs hus Tyholt, Trondheim, 7041 Trondheim (Norway)

ABOUT ME

PhD Candidate at the Department of Marine Technology, Norwegian University of Science and Technology (NTNU)

Research topic : Robust organizations of autonomous platforms with varying spatial & temporal capabilities

Project : Intelligent autonomous systems for safeguarding operations and infrastructure at sea – KPS Safeguard

Main supervisor : [Dr. Asgeir J. Sørensen \(IMT\)](#)

Co-supervisor : [Dr. Ingrid B. Utne \(IMT\)](#), [Dr. Martin Ludvigsen \(IMT\)](#), Dr. Thomas Røbekk Krogstad (FFI)

EDUCATION AND TRAINING

Doctoral degree (PhD) - Marine Technology

Norwegian University of Science and Technology (NTNU) [01/09/2024 – Current]

City: Trondheim | Country: Norway | Website: <https://www.ntnu.edu/employees/enio.krizman> | Level in EQF: EQF level 8 | NQF Level: 10 | Type of credits: ECTS | Number of credits: 39,5 | Thesis: Robust organizations of autonomous platforms with varying spatial & temporal capabilities

Introduction to Research Methodology, Theory of Science and Ethics (IFEL8000), Marine Control Systems I (TMR4240), Risk Analysis and Safety Management of Marine Systems (TMR4130), PhD Topics in Marine Control Systems (MR8500), Arctic Marine Measurement Techniques, Operations and Transport (UNIS, AT-834)

Master's degree (MSc) - Control Systems and Robotics [univ. mag. ing. inf. et comm. techn.]

Faculty of Electrical Engineering and Computing (FER), University of Zagreb [01/10/2022 – 09/07/2024]

City: Zagreb | Country: Croatia | Website: <https://www.fer.unizg.hr/en/studies/cro/master/fer3/ict/csr> | Field(s) of study: Maritime Robotics and Control Systems | Level in EQF: EQF level 7 | Type of credits: ECTS | Number of credits: 120 | Thesis: Modelski informirano globalno planiranje putanje i upravljanje autonomnoga plovila (eng. Model-Informed Global Path Planning and Control for Autonomous Vessels)

Marine Robotics, Fundamentals of Robotics, Nonlinear Control Systems, Multi-robot Systems, Discrete Event Control Systems, Robotic Sensing, Perception and Actuation, Machine Learning, Control Techniques in Mechatronics, Computer Controlled Systems, Networking Technologies, Estimation and Identification Theory, Embedded Systems, Vehicle Dynamics and Control, Engineering Documentation, Defense Systems and Technologies, Mobile internet

Bachelor's degree (BSc) - Electrical Engineering and Information Technology [univ. bacc. ing. el. techn. inf.]

Faculty of Electrical Engineering and Computing (FER), University of Zagreb [01/10/2019 – 15/07/2022]

City: Zagreb | Country: Croatia | Website: <https://www.fer.unizg.hr/en/studies/bachelor/eit> | Field(s) of study: Electrical engineering and information technology | Level in EQF: EQF level 6 | Type of credits: ECTS | Number of credits: 185 | Thesis: Razvoj autonomnog upravljanja vozilima za čišćenje (eng. Development of autonomous control for cleaning vehicles)

Robot Programming and Simulation, Robotics Practicum, Automatic Control, Signals and Systems, Digital Image Processing and Analysis, Object-Oriented Programming, Programming in C, Computer Architecture 1E, Fundamentals of Electrical Engineering, Electromagnetic Fields, Electromechanical Energy Conversion, Fundamentals of

Mechatronics, Mathematical analysis 1, Mathematical analysis 2, Mathematical analysis 3, Linear algebra, Probability and Statistics, Communication Systems, Electrical Circuits, Electronics 1, Electronics 2, Electrical Measuring Techniques, Digital Logic, Electric Power Engineering, Physics 1, Physics 2, Communication Skills, Basic Principles of Design, Management in Engineering, Engineering Economics, Environmental Sustainability and Climate Change Mitigation, Risk Management and Introduction to Space Technologies.

WORK EXPERIENCE

 **Maritime Center of Excellence** – Rijeka, Croatia

City: Rijeka | Country: Croatia | Website: <https://mcoe.hr/>

Autonomous vessel solution developer

[01/07/2023 – Current]

- Godot4 game engine for vessel environment simulation
- Overall system architecture planning
- ROS2 (C++ , Python)
- Control Systems, System Identification, Stability Analysis (Matlab)
- Vessel path planning
- Sensor Fusion and Situational Awareness

LANGUAGE SKILLS

Mother tongue(s): Croatian

Other language(s):

English

LISTENING C2 **READING** C1 **WRITING** B2

SPOKEN PRODUCTION B2 **SPOKEN INTERACTION** B2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

SKILLS

Python / MATLAB advanced knowledge / C/C++ intermediate knowledge / Simulink advanced knowledge / Non-Linear Control (MATLAB) / Path Planning Algorithms / State estimation / Linear and Non-Linear Control / System Identification / Machine Learning basics / Sensor Fusion / Situational awareness / ARM assembly basics / Embedded C / Autodesk Fusion 360 / Git / Linux / Python 3 advanced knowledge / Godot4 game engine / Robotic Operating System / CATIA