MindChip

Artificial Captain

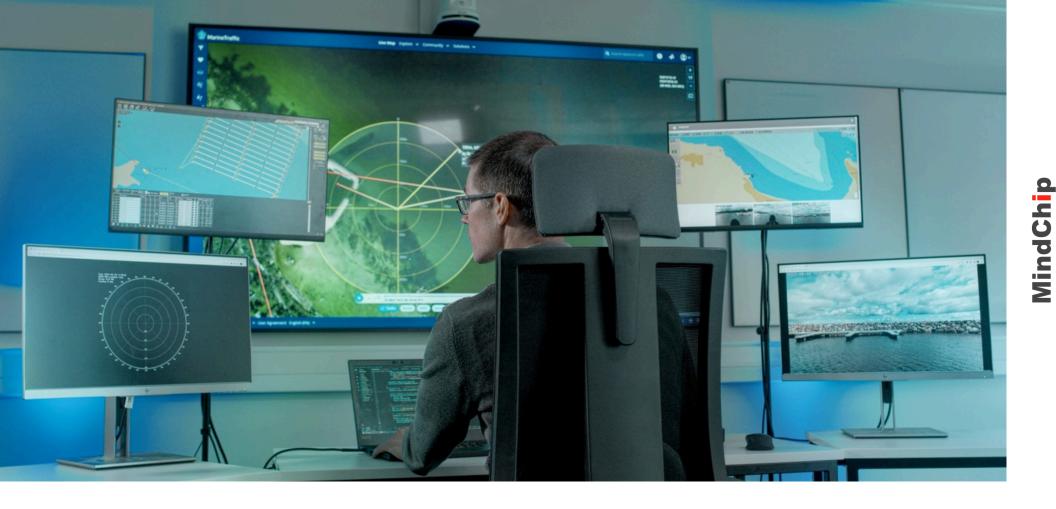
Intelligent Navigation & Situational Awareness for Autonomous and Manned Vessels

Artificial Captain, developed by MindChip and TalTech, delivers a comprehensive real-time view of maritime surroundings for enhanced situational awareness on both autonomous and manned vessels. By integrating radar, AIS, and camera data, it detects and tracks objects with precision, ensuring safe navigation.

With effortless remote control and plug-and-play autonomy, Artificial Captain transforms any vessel into a smart, self-sufficient powerhouse.

Phone: +372 5264 992 e-mail: info@mindchip.ee

www.mindchip.ee/artificial-captain



Advanced Navigation & Control

- Far- & near-field object detection
- 360° vision
- Remote control & distant monitoring
- COLREG-based navigational decisions & control
- Ethernet or WiFi connection to ship control systems
- Customized interface controller to communicate with ship control systems

Sensors & Communications

- AIS (class B)
- X-band maritime Radar (up to 36 nm range)
- 4x mmRadar (up to 100 m range)
- GPS module
- 4G, WiFi, satellite communications
- 13 cameras (4x machine vision, 8x distance measurement, 1x 360° PTZ)

Vessel Missions

Work missions Mission manage





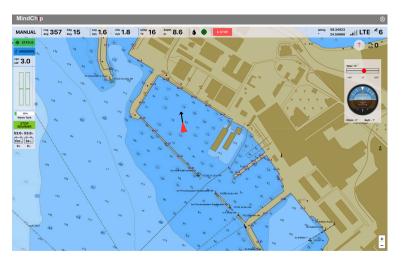
Mission Management

Plan, schedule, and manage missions with an intuitive interface. Customize routes, set precise timings, and scale to meet varying operational needs.

Web-Based Control Station

Access the vessel remotely for mission management and monitoring, with a detailed map view of its location, path, and surroundings. Real-time telemetry and HD video streams offer a comprehensive, live overview of vessel status.

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MindChi	p Dashboard	Vessel N	lissions				8
MANUAL	deg 288 deg 14	sog m/s 1.6	5 ^{stw} 1.8	•c 16 depth 8.6	E.STOP	lating +	59.34936 24.59971 .II LTE *5
🕅 мар	٨	A	Last update: 2024/11/	08 11:39:19			↑ ^{ws} 0
at MISSIONS	$\langle \hat{o} \rangle$	6	Subsystem	Status	Subsystem	Status	
^{cpc} 3.0	01	101	(112)		Aft mmWave Radar	N/A	
			AIS	OK	Front mmWave Radar	N/A	Yaw: 14*
			X-band radar	411 Radar driver unavailable	Portside mmWave Radar	N/A	
			X-band radar	411 Radar driver unavailable	Starboard mmWave Radar	N/A	-180° 0° 180°
HH			Portside Subsystem	Status	Starboard Subsystem	Status	
			Aft Bilge Pump	ок	Aft Bilge Pump	ок	
			Aft Temp	ОК	Aft Temp	ок	
			Aux Battery	ок	Aux Battery	ок	111
10% Waste Tank			Battery	ОК	Battery	ок	
STOP			Battery Bilge Pump	ОК	Battery Bilge Pump	ОК	Pitch: -1* Roll: 0*
SKIMMER		L,	Battery Temp	ок	Battery Temp	ок	
53.6v 53.7v			Cargo Bilge Pump	ок	Cargo Bilge Pump	ок	
100 ⁻ / ₂ 99 ⁻ / ₂			Cargo Temp	ок	Cargo Temp	ок	
0A 0A			Engine Bilge Pump	ок	Engine Bilge Pump	ок	
	in the second		Engine Temp	ОК	Engine Temp	ок	
			Fueltank	ок	Fueltank	ок	
			Generator	N/A	Generator	N/A	
			Propulsion	ОК	Propulsion	ок	

Operator View

Gain full access to vessel telemetry data, with the flexibility to switch between autonomous and manual modes. Maintain complete situational awareness with alerts for course changes and system malfunctions, ensuring safe and efficient operations.