SDU Mechatronics

The Faculty of Engineering

SDU
MECHATRONICS

RESEARCH

Modeling, Estimation and Control

Simulation of physical systems, model-based estimation and diagnosis of faults, intelligent control of mechatronic systems

Autonomous Systems

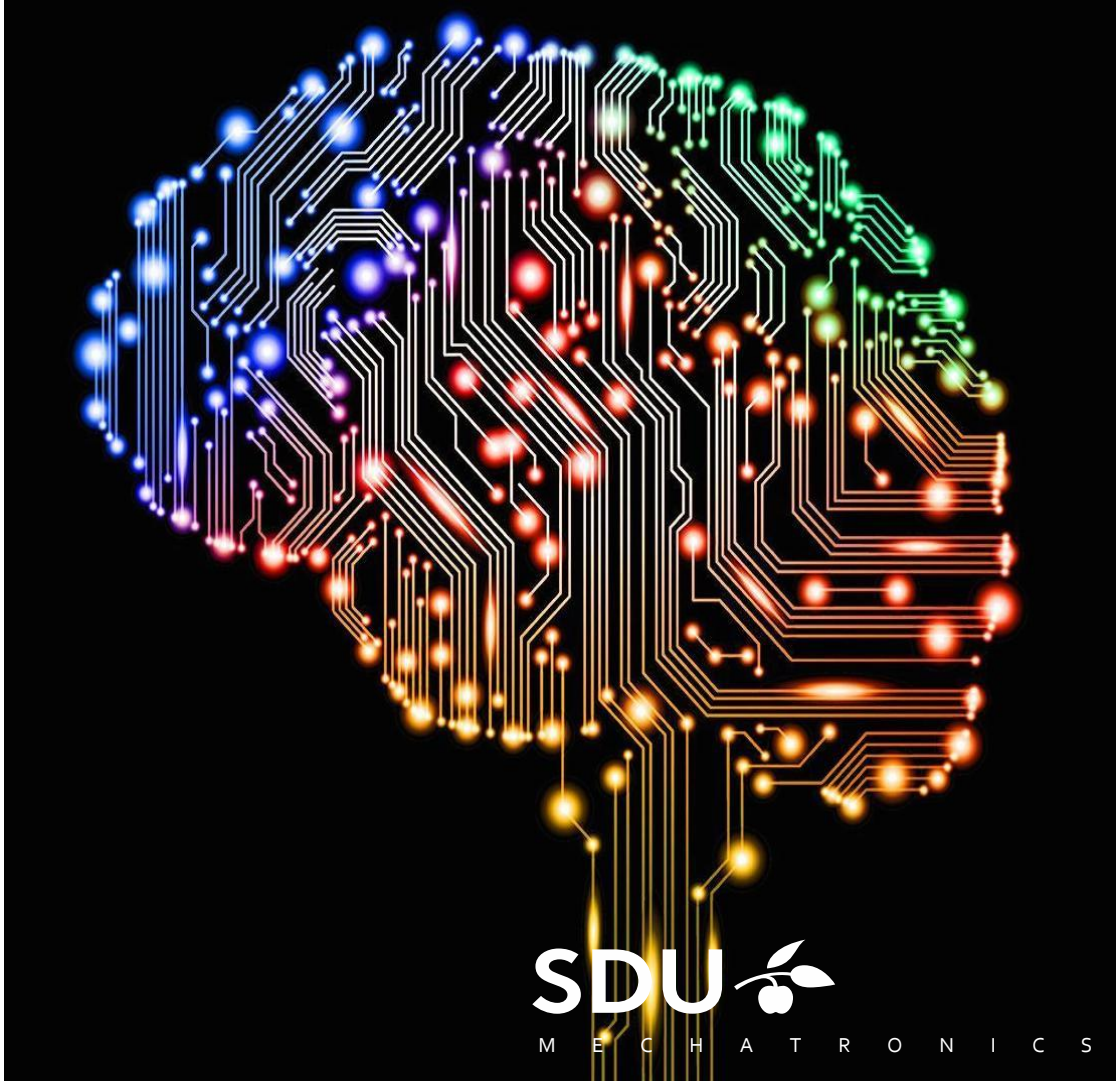
Path planning, off-road vehicles, decision making, implementation of artificial intelligence on robots, electromechanical robot design

Additive Manufacturing

Manufacturing of optimized mechatronics products, material characterization, integration of electronics

Intelligent Embedded Systems

Hardware/Software co-design, auto-calibration of mechatronic devices, sensors and actuators with learning capabilities

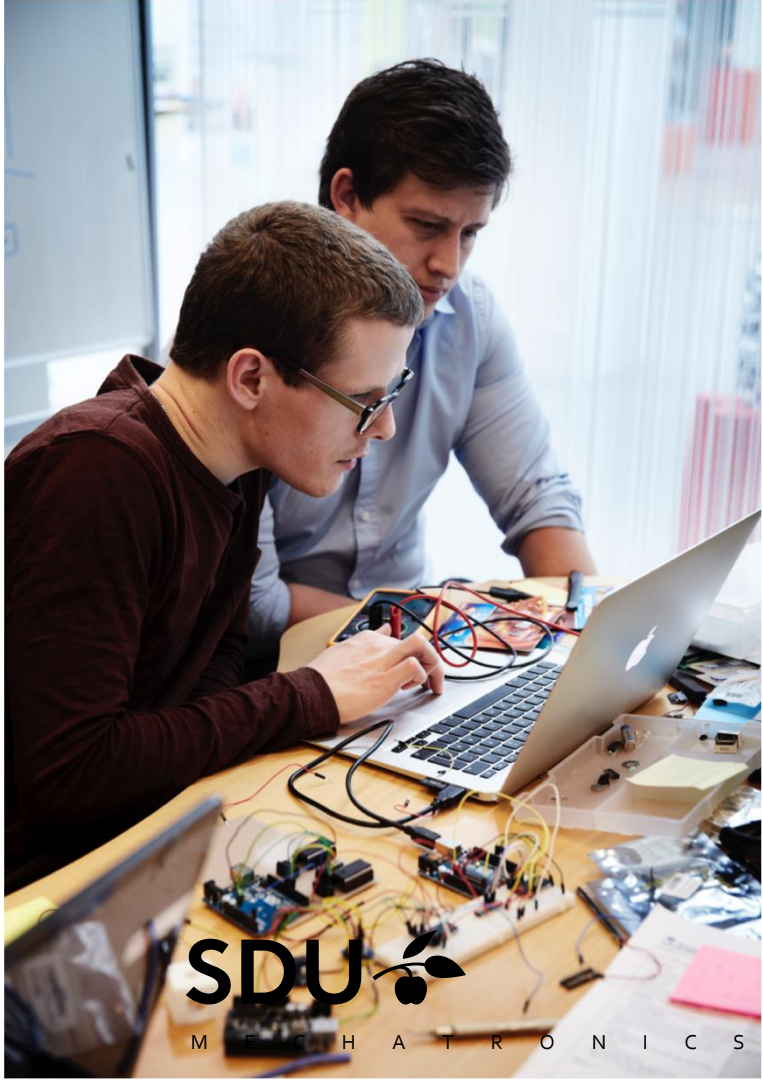


EDUCATION

Master of Science in Mechatronics
(Civilingeniør)
Specialized profiles in Modeling and Control, Power Electronics, Embedded Control Systems and Nanotechnology

Bachelor of Science in Mechatronics
Specialized profiles in Electronics, Embedded Systems, Mechanical Engineering, Mechatronics

Bachelor of Engineering in Mechatronics *(Diplomingeniør)*
Specialized profiles in Electronics, Embedded Systems, Mechanical Engineering, Mechatronics



SIGNIFICANT PROJECTS

ASIR
Automated Sewer Inspection Robot. Developing a robot platform for navigating in sewage systems.

Friction Welding
Analysis of rotary friction welding, mathematical model of weld region, strength testing.

EmPower
Modelling and optimization of a local district heating system.

CONTACT

Interim Head of Section: Horst-Günter Rubahn, rubahn@mci.sdu.dk
Phone: +45 6550 1190
Lars Duggen, duggen@mci.sdu.dk
Phone: +45 6550 1640
www.sdu.dk/mechatronics