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Nr. crt.	Titlu lucrare	Scurta descriere	Cerinte	Nivel (licenta/master)
1- 5	Next-Level Environmental Control: Harnessing Fog and Edge Computing	This project focuses on modelling and deploying intelligent environmental control systems using fog and edge computing. By processing data closer to where it's collected, at the edge of the network, we aim to make buildings more efficient and responsive. The work involves designing advanced control systems to manage environmental factors like temperature, light, and air quality, with the goal of improving residents' sleep quality and overall health.	Advanced knowledge of Control Engineering I & II, System Identification and System Theory. Previous experience in MATLAB and/or Python is mandatory. A high level of independence is required as the student will be collaborating with a research team! Moreover, the student will access information that is not intended for public release. Therefore, a strong sense of responsibility is essential!	BSc
6, 7	From Code to Control: Full-Stack Apps for Smarter Buildings	Developing cross-platform applications to provide users with seamless access to smart building automation features.	Strong knowledge of native programming languages and full-stack development practices to create secure, responsive, and intuitive interfaces tailored to smart building environments. A high level of independence is required as the student will be collaborating with a research team!	BSc
8. 9	Tailored Digital Twins: Revolutionising Sleep Quality Analysis for the Modern Workforce	Developing Digital Twin solutions to analyse the sleep quality of individuals, based on several profession-specific characteristics.	Advanced knowledge of data and image processing algorithms. Previous experience in Python is mandatory. A high level of independence is required as the student will be collaborating with a research team! Moreover, the student will access information that is not intended for public release. Therefore, a strong sense of responsibility is essential!	BSc