

DOBRA Mirela

Nr.crt.	Titlu lucrare	Scurta descriere	Cerinte	Nivel (licenta/master)
1	Interfață grafică pentru afișarea turației / poziției unui motor BLDC	Utilizarea kitului dsPICDEM™ MCLV-2 Development Board (Low Voltage)	Python, Matlab; Functionarea motorului BLDC PM	licenta
2	Interfață grafică pentru afișarea turației / poziției unui motor BLDC	Utilizarea F28035 Piccolo Experimenter's Kit (http://www.ti.com/tool/TMDSDOCK28035)	Python, Matlab, Functionarea motorului BLDC PM	licenta
3	Evaluarea performanțelor kit-ului de gestionare a panourilor solare	Utilizare Solar Micro Inverter Development Kit (http://www.ti.com/tool/TMDSSOLARUINVKIT)	Python, Matlab, functionare inverter	licenta
4	Root Locus method – a comparison to modern control approaches	LTI system control techniques	Advanced theoretical knowledge in the control algorithms for LTI systems	licenta
5	Frequency response (Nichols diagrams) - a comparison to modern control approaches	LTI system control techniques	Advanced theoretical knowledge in the control algorithms for LTI systems	licenta
6	Design and implementation of perturbation observer-based sliding-mode control for second order systems	Discrete time implementation	Advanced theoretical knowledge in the analysis of LTI systems	master
7	Modelling and simulation of essential oil extractors	Use of mathematical models for LTI systems	Utilizarea algoritmilor din Matlab dedicați modelării și simulării sistemelor LTI	master
8	MPPT solar charge controller	Solar Micro Inverter Development Kit (http://www.ti.com/tool/TMDSSOLARUINVKIT)	Medium knowledge of C/ C++ Advanced theoretical knowledge in the control algorithms for LTI systems	master

9	Reduced code generation for data acquisition	Simulink Coder™ (formerly Real-Time Workshop®) generates and executes C and C++ code from Simulink® diagrams, code outside MATLAB and Simulink	Medium knowledge of C/ C++	master
10	Reduced code generation for data processing	Simulink Coder™ (formerly Real-Time Workshop®) generates and executes C and C++ code from Simulink® diagrams, code outside MATLAB and Simulink.	Advanced Matlab user	master