Nr	Responsible	Department	Short description
1	Hujdič	HW	Návrh aktívneho PFC (800W, 230V)
2	Chomič	HW	D-Bus 3 (Návrh podľa špecifikácie)
3	Pavlov	HW	Možnosti riadenia BLDC motorov
5	Čižmár	HW	Porovnanie jednovrstvej/viacvrstvej DPS z EMC hľadiska
6	Pavlov	HW	Návrh IGBT výkonového mostíka vrátane budičov pre riadenie BLDC motorov (150W, 230V)
7	Hajduk	HW	Návrh 2D kapacitného snímača a drivera
10	Zahorjan	HW	Hlasové ovládanie
11	Šepeľa	HW	Ovládanie ventilov pračky (300V DC)
12	Chomič	HW	Analýza ochranných obvodov Dbus 2
13	Mayr	SW	Model based development of an embedded system e.g. KnB or Motor electronics
15	Mayr	SW/QMD	Automatic generation of a process backbone for electronic system development
16	Mayr	SW	Automatic adaption of UI contents by means of artificial inteligence with prototyping
17	Mayr	SW	Performance Evaluation on animations for embedded graphic engnines
19	Mayr	SW/HC	Security analysis of embedded systems
20	Mayr	SW/Usability	Usage of home appliances beyond the conventional usage (e.g. learning, gaming, children ...)
21	Mayr	SW/TST	Automatic test case generation with mathematical models of user interfaces
22	Mayr	SW/TST	Animation recognition of UI contentents with camera systems
23	Mayr	SW/HW	Modelling electronic system of home appliances with model based languages (e.g. AADL, SysML, …)
25	Mayr	SW	Simulation of a cooking process in ovens or other home appliances
26	Mayr	SW/Test	Mathematical test methods for (robustness) tests in home appliances
27	Mayr	SW/HC	Big data in home appliances
28	Mayr	SW/Test	Usage of robotics in tests for TFT user interfaces
29	Mayr	SW/Test	Modelling of an automotive Lambda sensor of other with LabView for testing
30	Mayr	SW/Test	Creating a Model-In-the-Loop (MIL) test environment of electronic systems with LabView/Teststand
32	Mayr	HW/Test	Creating a Processor-In-the-Loop (PIL) test environment with LabView/Teststand
33	Mayr	QM-SW	Analysis of existing software by use of metrics, static and dynamic code analyisis and other methods
35	Mayr	SW/HW	Industrie 4.0 support in electronic development
36	Mayr	SW/RM	Definition of behavioural model of an electronic system and generation of SW (with LEX/YACC)
37	Mayr	SW/HW	Usage of Wearables in the context of home appliances
38	Mayr	SW/HC	Realtime application of cloud computing in home appliances
39	Mayr	SW/HW	Safty concepts for children in cooking appliances with (e.g. with NFC, camera or other person detection methods)
40	Mayr	SW/PO/PL	Analyis and modelling of dependencies in a (SW-Development) process and optimisation with JIRA
41	Mayr	SW/Test	Transfer of NI camera solution for TFT to desktop emulation
42	Mayr	SW/Test	Evaluation of picture recognition algorithms
43	Mayr	SW	Natural Language Processing on Home Appliances
44	Szilagyi	SW/MotorControl	Sensor less air volume estimation, motor control according to estimated values
45	Szilagyi	SW/MotorControl	Sensor less high torque start for BLDC motor
46	Szilagyi	SW/MotorControl	Noise reduction for switched reluctance motor
47	Smetanka	SW/Generic	Eclipse plugin for Code Review