Project name: Smart bin

Countries:	Czech Republic	Republic of Slovenia
Suitable for grade:	3	
Specialization:	IT, Automatic systems	
Responsible teacher:	Pavel Urban	Simon Horvat

Project description:

ARDUINO with modules for GSM, GPS and sensor communication must be programmed for reporting abnormal states. The bin model is realized by the partner.

Project tasks:
Student #1 (CZ):
- To select sensors and modules with the partner
- To build a provisional system
- To programme ARDUINO
- To perform simulation tests
- To write documentation both in English and Czech language

Student #2 (SLO):
- To Make the final model
- To Assemble sensors
- To programme HW tests on ARDUINO
- To perform final tests
- To write documentation in both English and Slovenian language

Success criteria:
Thesmart bin can send a message when it is full or displaced

Developed hard skills:
   Analysis of real problems, usage of different sources of information, programming in C language, software configuration, improvements in English language, equipment selection, trouble shooting, complex problem solving

Developed soft skills:
   Communication skills, problem solving skills, creativity, team work capability