



HEIBus Newsletter

December 2019

HEIBus Project – Final HEIBus Seminar

The **Final HEIBus Seminar** was organized by University of Jaen in the 21st of November 2019, as part of the 13th International Forum of Mechanical and Mechatronics Engineering. In this event more than 50 experts, teachers and students from several European universities and companies participated. The HEIBus experts presented the best practices and the project results obtained after the three-year of implementation in the event.

During this period the proposed cooperation models were tested by the consortium partners as pilot projects. These cooperation models aimed to increase the involvement of students and HEI staffs in international Research & Development & Innovation (R&D&I) projects proposed by companies. These projects facilitated direct contacts of the HEI students and staff with companies in an international environment that stimulates innovative and entrepreneurial thinking.



In HEIBus project, two rounds of Multidisciplinary Real Life Problem Solving (RLPS) projects were organized, both consisting of three such projects. In these projects 108 students, 12 HEI staff members from all partner HEIs and more than 10 company experts collaborated for solving the proposed themes. The first round started in September 2017 with three RLPS projects hosted by



JAMK University of Applied Science (Finland) in collaboration with ITAB Finland Oy, Technical University of Cluj-Napoca (Romania) in collaboration with Automates ACM and University of Jaén (Spain) in collaboration with Andaltec. All three projects ended in December 2017 with final presentations. The second round started in September 2018, and the host universities were Esslingen University of Applied Sciences (Germany) in collaboration with FESTOOL GmbH, University of Miskolc



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(Hungary) in collaboration with Robert Bosch Power Tool Kft. and University of Jaén (Spain) in collaboration with Sensor Integration & Robotics (ISR). The final presentations for these three RLPS projects were organized in December 2018.

Expert level real life problem solving (EXPERT) is a new cooperation model proposed in the HEIBus, which was tested by pilot projects in two phases. In these projects 36 researchers from 4 HEI partners and more than 12 experts from companies, collaborated in solving the research themes that were proposed. The first round started in January 2018. The company partners in the first project round were: Electrolux Lehel Ltd. from Hungary, ITAB Finland Oy and S.C. ProTehnic SRL from Romania. The second round started in January 2019. The company partners in the second project round were: Valtra Oy from Finland, Bosch Power Tool Kft. from Hungary and Bosch Plant Jucu from Romania.

The Flexible Student Mentoring by Companies cooperation model (Flex Mentoring) offered the possibility for companies to be involved directly in the education process of students thru dedicated activities that were supervised by company mentors. In these activities 15 companies (Elomatic, Moventas, Valtra, ProTehnic, Automates, Bosch Jucu Plant, Electrolux Lehel, Bosch Power Tool Kft., Stöbich Brandschutz, FESTOOL, Wieland Werke, Andaltec, Sensor Integration & Robotics, Marwen Ingeniería and Valeo Lighting System) closely cooperated with HEI partners in their own countries implementing the cooperation models. During the three-year implementation more than 100 students from Bachelor, Master and PhD levels participated in these activities.

All implemented activities received positive feedback from the participating students, HEI staff and company representatives. This success offered the premises of continuing the implementations of the proposed models in the next years and extending the partners consortium.

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