Project

Study of the European Metal Recycling Market.

Introduction: (Explain the framework of the project and the problem to be solved)

PICVISA is an innovating technology company based in Calaf (Barcelona, Spain) and with national and international presence.

Our team develops machine vision systems for sorting materials, with high focus on the recycling industry. We define, develop and produce selection and sorting equipment for materials (glass, plastic, paper, cardboard, metals, etc.) by composition and by color, based on our own image processing software and specific for each application.

The company is currently analysing business opportunities related to fine metals recycling with sensor-based sorting technologies, such as Laser-Induced Breakdown Spectroscopy (LIBS) and X-Ray Fluorescence (XRF) spectrometry.

Project Brief: (Describe the project specifying the main objective and its outcomes, design specifications, etc…)

Study of the metal scrap recycling european market.

Particular attention to scrappers and secondary furnace sectors, concerning non-ferrous metals such as aluminium alloys, copper, brass and other to be defined by the students.

Candidates will demonstrate market analysis skills as well as ferrous and non-ferrous metallurgy knowledge and about their alloys.

The company will introduce the students to sensor-based sorting technologies, including a visit to a test centre facility (near Barcelona) which was recently built by
the company.

The market study will be put in the context of the company potentials and opportunities.

Potential clients of the company metal sorting solutions will be identified.

## Company

<table>
<thead>
<tr>
<th>Name:</th>
<th>Picvisa (Calaf group)</th>
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</thead>
<tbody>
<tr>
<td>Address:</td>
<td>C/Isaac Newton, 2 Calaf (Barcelona)</td>
</tr>
<tr>
<td>Contact person:</td>
<td></td>
</tr>
</tbody>
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## Project team:

<table>
<thead>
<tr>
<th>Number of students:</th>
<th>Ideally 5.</th>
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| Students speciality: | X Business Management  
| | X Mechanical engineering  
| | X Electrical engineering  
| | X Electronics engineering  
| | ☐ Chemical engineering  
| | ☒ Computer engineering.  
| | ☐ Telecommunications engineering.  
| | ☐ Design.  
| | ☐ ………….. |