Example Project Placement Plan

Essential information:

<table>
<thead>
<tr>
<th>Company</th>
<th>Keigan Inc.</th>
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<tbody>
<tr>
<td>Company Country</td>
<td>Japan (Osaka)</td>
</tr>
<tr>
<td>Company Website:</td>
<td><a href="https://keigan-motor.com/">https://keigan-motor.com/</a></td>
</tr>
<tr>
<td>Virtual or In-person</td>
<td>Both</td>
</tr>
<tr>
<td>Career Field</td>
<td>Engineering</td>
</tr>
</tbody>
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About the Host Company

We are startup company founded 3 years ago. We design, manufacture, and sell Motor Module ‘KeiganMotor’ that enables rapid prototyping of robots. Now we are designing a new AGV (Auto Guided Vehicle) and Robots for sales in the future. If you join us you can understand the design and manufacturing process of robots and you can experience work in a Japanese startup company.

Core Skills

- Design electronic or manual website, marketing materials, posters,
- Tech: designing, improving, or contributing to software/hardware
- Presenting: in person, digital, creating
- Using a foreign language: developing or building on an existing language during the internship, using the intern’s native language
- Meetings: Shadowing, note taking, observing
- Databases: for sales leads, products etc

Internship Title: Design and Manufacturing of Robots Actuator or Robots

What are the main projects that Intern is working on?

- Autonomous Mobile Robot Navigation.
  - Development of light-weight program for autonomous mobile robot that can carry human and heavy load. It does path-planning, mapping and autonomous running by input of the cutting-edge laser sensor. The robot is a 2-wheeled drive or omni-wheeled car and the programming environment is C on embedded micro controller or Linux.
  - The intern will do hardware development such as power management or around sensors. This development will be expanded to manipulation by robot arm as the next step.

- Telepresence Robot smartphone application
  - Development of smartphone application that controls KeiganMotor via the Internet. The concept is based on our app “KeiganCore” and the app assign jobs KeiganMotors wirelessly and to build various robots quickly. It runs on iOS and Android. It also needs server (backend) development (elective). KeiganMotor can be controlled by Bluetooth Low Energy wirelessly.