IPRO 338 Project Plan

The Effects of Green Technology on Electrical Contractors

Advisor: Dan Tomal
Sponsor: Electrical Contractors’ Association of the City of Chicago
Team: Althoff, Sarah  
Boonstra, David  
Dilger, Andrew  
Haque, Sabeen  
Kamdar, Amit  
Marrari, Giuseppe  
Mitchell, Jason  
Patel, Vrudhdhi  
Saulog, Jeremy  
Sin, In Seok  
Standard, Steve  
Wright, James
Objectives:

The purpose of this IPRO is to develop a template for a website to host a user-friendly online database of green technologies information for the Electrical Contractors’ Association of the City of Chicago. This website will involve providing data on green electrical products with cut sheets, pricing and distributor information, return on investment projections, and LEED certification facts. The use of this website should help create a well informed transition from industry standard electrical products, to green alternative products, as well as cut down on miscommunication between architects and electrical contractors.

Background:

The specifications for electrical products are commonly selected by the architects, clients, or general contractors, and typically done without the consultation of electrical contractors. This creates an information gap between the design and construction personnel, which in turn causes many construction redundancies. As of right now, data on green technologies are scattered throughout the internet, without a common source to organize the information in one easy-to-use database.

Methodology:

-Several member of the IPRO are tasked with researching current green technologies that are available, as well as the distributors of these products.  
-Once the information is gathered, a large portion of the team will work on developing the website. It will be up to these members to ensure that the website is user-friendly, visually appealing, displays the desired information, and is smart phone accessible.  
-The remainder of the team will go on site visits to speak to electrical contractors in the field, in order to gain any addition information or user feedback that will assist in the articulation of the website.

Expected Results:

This IPRO will result in an online utility that assist Chicago’s transition to becoming the greenest city in the country, as well as helping to reduce the communication divide between designers and the labor force.

Project Budget:

This IPRO will require presentation materials for IPRO day, which will be funded by the ECA. Aside from that, every attempt to use the resources of IIT labs will be made.

Task and Milestones:

*See attached Gantt Chart
Individual Team Member Assignments:
<table>
<thead>
<tr>
<th>Name</th>
<th>Major/Minor</th>
<th>Skills</th>
<th>Strengths</th>
<th>Experience and Academic Interests</th>
<th>Team</th>
<th>Why they are on this team?</th>
<th>Assignments done so far</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sarah Althoff</td>
<td>Fourth year undergrad Architectural Engineering</td>
<td>Computer Proficiency</td>
<td>Very observant</td>
<td>Interned with Teng &amp; Associates as an HVAC engineering intern</td>
<td>Secretary</td>
<td>Observant fast typer</td>
<td>Minutes, Organizing timesheets, Weekly task list</td>
</tr>
<tr>
<td>David Boonstra</td>
<td>Fourth year undergrad INTM department</td>
<td>ECA contacts, knowledge of technical drawings</td>
<td>Practical knowledge</td>
<td>Worked for the past four years for a member contractor of the Electrical Contractors Association of Chicago</td>
<td>Co-Captain, Master Schedule Maker</td>
<td>Relevant field experience</td>
<td>LEED research</td>
</tr>
<tr>
<td>Andrew Dilger</td>
<td>Fifth year undergrad Architecture</td>
<td>Work experience MS Office, Adobe CS3</td>
<td>Able to simplify complex &quot;brainstorming&quot;</td>
<td>IPRO, Web design, Research within the architectural disciplines</td>
<td>Time Keeper, Web designer, Project Planner</td>
<td>Experience in similar projects</td>
<td>Project Plan, LEED research</td>
</tr>
<tr>
<td>Sabeen Haque</td>
<td>Fourth year undergrad Psychology</td>
<td>Computer proficiency</td>
<td>Eager to learn</td>
<td>Previous IPRO iGROUPS</td>
<td>Research (Power supply)</td>
<td>Volunteer for additional knowledge</td>
<td>LEED research</td>
</tr>
<tr>
<td>Amit Kamdar</td>
<td>Fourth year undergrad in BCPS department</td>
<td>Computer proficiency</td>
<td>Gives unbiased feedback</td>
<td>Previous IPRO</td>
<td>Research (Power supply)</td>
<td>Organized an SAE team to an international race between other schools</td>
<td>Administered LEED survey to ECA members</td>
</tr>
<tr>
<td>Giuseppe Marrari</td>
<td>Fourth year undergrad Electrical Engineering</td>
<td>Project Management</td>
<td>Leader</td>
<td>Worked on previous IPRO involving hybrids.</td>
<td>Team Captain</td>
<td>Limited experience with researched topic</td>
<td>LEED research</td>
</tr>
<tr>
<td>Jason Mitchell</td>
<td>Fourth year undergrad Architecture</td>
<td>Work experience</td>
<td>Design perspective</td>
<td>Architectural field work</td>
<td>Architectural field work</td>
<td>Interest in improving team strength</td>
<td>LEED research</td>
</tr>
<tr>
<td>Vrudhdhi Patel</td>
<td>Fifth year undergrad Chemistry</td>
<td>Computer proficiency</td>
<td>Useful as a non-EE reference</td>
<td>Previous IPRO Ethics</td>
<td>Ethics</td>
<td>Brainstormed project ideas, researched into HVAC and helped work on Project Plan</td>
<td>LEED research</td>
</tr>
<tr>
<td>Jeremy Saulog</td>
<td>Aerospace and Mechanical Engineer</td>
<td>Proficient with AutoCAD and MS Office</td>
<td>Fast learner and hard working</td>
<td>Aerospace, Mechanical engineering and psychology</td>
<td>Ethics</td>
<td>Ethics makes team bond together and distinguish the strong and week point</td>
<td>Making ethics for IPRO 338 and helped to make a concept of approaching user friendly access website</td>
</tr>
<tr>
<td>In Seok Sin</td>
<td>Fifth year undergrad Biology</td>
<td>Ms Office</td>
<td>Highly interested in green technology and hard working</td>
<td>Environment Science</td>
<td>Ethics</td>
<td>Limited experience with researched topic</td>
<td>LEED research</td>
</tr>
<tr>
<td>James Wright</td>
<td>Fifth year undergrad Architecture</td>
<td>Work experience</td>
<td>Knowledgeable in IPRO topic</td>
<td>Working for IIT maintenance</td>
<td>Research (low voltage)</td>
<td>Brainstormed project ideas, researched into HVAC and helped work on Project Plan</td>
<td>LEED research</td>
</tr>
</tbody>
</table>
Designation of Roles:

A. MEETING ROLES

Minute Taker: This member is in charge of recording decisions made during meetings including task assignments or changes under consideration.  
Althoff, Sarah

Agenda Maker: This member is responsible for creating an agenda for each team meeting. This provides structure to the meetings and offers a productive environment.  
Marrari, Giuseppe

Time Keeper: This member needs to be responsible for making sure meetings go according to agendas.  
Dilger, Andrew

B. STATUS ROLES

Weekly Timesheet collector/Summarizer: This member is responsible for collecting weekly timesheets from each member of the team and updating everyone with a summary report  
Althoff, Sarah

Master Schedule Maker: This member is responsible for collecting schedules from all team members and developing a master schedule, which tells the team when members are available and how to contact them.  
Boonstra, David

iGROUPS: This member is responsible for organizing the teams iGROUP and ensure that it is used properly.  
Haque, Sabeen