**CCDP2100 F&H Summer 2013**

**PROJECT OUTLINE for Patent Project**

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| **PROJECT TITLE**  **Surveillance System with Identification Correlation**  **US Patent: 6,987,451** | TEAM # P3 | TEAM MEMBERS  1. Matthew Maynes  2. David Briglio  3. Connor Matthews  4. Larona Mkotedi |
| **BACKGROUND:**  **(This Part needs to be done as team;** Use a Forum or whatever works for your team):  **Which Patent will your team be writing and talking about?**  **What is the most important purpose (Prime Objective) of this component?** (~50 words) (e.g. The sail’s greatest purpose will be to offer theWindrider an alternative mode of propulsion to pedalling or otherwise turning the crank set. The sail’s main role will be to harness as much energy as possible from the wind. Without throwing the rider off balance, the additional forces and the derived energy should contribute to moving the rider forward and towards their destination. )  **What will be its most challenging aspect?**  **TIME MANAGEMENT EVALUATION**  **(This Part needs to be done as team;** Use a Forum or whatever works best for your team):  **How many person-hours do you estimate the planning-to-presentation of this component’s design will take?** What R&D stages would you consider? The purpose of this Part of the exercise is to ensure that all team members are aware and agree on the number of hours required for the design of this component   1. **(e.g. Planning phase for written materials):** \_\_\_\_\_\_person-hours    1. **(e.g. Researching phase ):** \_\_\_\_\_\_person-hours    2. **(e.g. Writing phase ):** \_\_\_\_\_\_person-hours    3. **(e.g. Peer Feedback phase):** \_\_\_\_\_\_person-hours    4. **(e.g. Illustration phase):** \_\_\_\_\_\_person-hours    5. **(e.g. Reviewing Drafts phase ):** \_\_\_\_\_\_person-hours    6. **(e.g. Component fit considerations with other components phase ):** \_\_\_\_\_\_person-hours    7. **(e.g. Final Editing of writing phase ):** \_\_\_\_\_\_person-hours 2. **(e.g. Planning phase for verbal presentation materials ):** \_\_\_\_\_\_person-hours    1. **(e.g. Adapting Word-Doc text to essential Powerpoint (PPT; Presentation words phase ):** \_\_\_\_\_\_person-hours, etc.   **OTHER TEAM-PATENTS REQUIRING YOUR TEAM’s CONSIDERATION**  **(This Part should be discussed and written as a team – i.e. collaborative feedback) Which other Team-Patent (i.e. Car component) does your team need to consider as it strives to improve its initially researched Patent? Offer a rationale in about another 50 words (2 or three sentences per Team-Patent requiring your team’s consideration and consultation).**  **A: mostly: (e.g. the Brake-Energy Patent-Team)**  **B:somewhat: (e.g. the Wind-Energy Patent-Team)** | | |
| **PRINCIPLES / THEOREMS /LAWS mostly from 1ST** (some 2nd or later) **YEAR ENGINEERING COURSES :**  **This project will require two main levels of communications.**   1. **One pertains to internal communications** within each Patent-Team. 2. **The other pertains to project communications** that will regularly need to take place between two or more Patent-Teams.   All Patent-Team Members will have to meet a reasonable number of times to ensure that all of the Patent Project’s engineering principles are well-integrated into a Final revised & improved version of the initial patent. These internal team communications will develop several communication, organisational and leadership skills (e.g. leading/ coordinating/moderating meetings, identifying & assigning action items, with key target dates, etc.)  **How many times do you think your team will meet per week and over the term?**  **If not during class-time, could you meet on-line (via Skype, Google Docs or cuLearn ?Bluebutton?)?**  **EXPLANATION of TEAM-Patent Project PRINCIPLES**  **Secondly, each Team-Member of your particular Patent-Project will need to research, determine and state 2 engineering principles that apply to a well-identified aspect of your Team’s Patent Project. Each principle should be referenced by two sources and these references should be written in** (in [IEEE Format](http://www.ieee.org/documents/ieeecitationref.pdf" \t "_blank))**. All told, a Patent-Team of 4** will provide 8 different engineering principles with 16 reference sources. A reference can be a course textbook, engineering handbook, journal article, etc. While Wikipedia can be an initial source of information, it should not be used as a reference on its own. However, its own peer-reviewed and recognized references can be used as your referenced sources of information.  This will ensure that you become more familiar with researching engineering principals, theorems or laws in [Carleton’s Library Catalogue](http://catalogue.library.carleton.ca/" \t "_blank) or in its extensive collection of electronic journals via [Carleton’s Library Journals.](http://www.library.carleton.ca/find/journal-articles" \t "_blank)  These engineering concepts must support your project patent of this term which is focused on improving the safety and energy-efficiency of automobiles.  (Click [here for IEEE Citation Format](http://www.ieee.org/documents/ieeecitationref.pdf" \t "_blank) or see course textbook Ch. 11)  **(This Part should be discussed as a team to ensure that each teammate will explain two different principles.** Teammate feedback on the individual’s work is encouraged as is other classmates’ feedback)  **Each team member needs to explain their 2 different principles** (in ~400 words or less)**.**  Specify below the Engineering Principles, Theorems or Laws that apply to your team’s patent project, also indicate in which course it was introduced to you. If it is to be presented in a future course, indicate this with “TBL” (To Be Learned) along with the course ID.  **Team Member 1, Name :**  (indicate if you are also designated as the Component’s 1st Team-leader and/or liaison officer)  **Name of your Principle-1** for your Team Patent:  Source course:  Reference 1:  Reference 2:  **Explanation of your Principle-1 in ~200 words or less**:  **Name of your Principle-2** for your Team Patent:  Source course:  Reference 1:  Reference 2:  **Explanation of your Principle-1 in ~200 words or less**:  **Team Member 2, Name :**  (indicate if you are also designated as the Component’s 1st Team-leader and liaison officer)  **Name of your Principle-3** for your Team Patent:  Source course:  Reference 1:  Reference 2:  **Explanation of your Principle-2 in 200 words or less**:  **Name of your Principle-3** for your Team Patent:  Source course:  Reference 1:  Reference 2:  **Explanation of your Principle-2 in 200 words or less**:  **Team Member 3, Name :**  (indicate if you are also designated as the Component’s 1st Team-leader and liaison officer)  **Name of your Principle-5** for your Team Patent:  Source course:  Reference 1:  Reference 2:  **Explanation of your Principle-3 in 200 words or less**:  **Name of your Principle-6** for your Team Patent:  Source course:  Reference 1:  Reference 2:  **Explanation of your Principle-3 in 200 words or less**:  **Team Member 4, Name :**  (indicate if you are also designated as the Component’s 1st Team-leader and liaison officer)  **Name of your Principle-7** for your Team Patent:  Source course:  Reference 1:  Reference 2:  **Explanation of your Principle-4 in 200 words or less**:  **Name of your Principle-8** for your Team Patent:  Source course:  Reference 1:  Reference 2:  **Explanation of your Principle-4 in 200 words or less**: | | |
| SYSTEM DESCRIPTION  **This Part can be discussed and written as a team,** (collaborative feedback is encouraged)  **In one paragraph, describe the patent features, stating how the principles are related** (the role of the principles). **Underline the principles whenever they are referred to.**  **Attach a labelled diagram, drawing or illustration. (using your drawing skills, GoogleDraw\*?,** [**Intellicad**](http://www.caddit.net/intellicad/intellicad.php) **(a** [**simpler form of Autocad\*?)**](http://www.profsurv.com/magazine/article.aspx?i=71129)**, other software of your choice or simply hand-drawn then scanned or digitally photographed in order to place it in this document**  **(This one common Diagram and Visual can be started by one of the Patent-Team members but then quickly becomes a single collaborative result of the team)** | | |
| ACRONYMS & TERMS DEFINED  Make sure to define your acronyms & terms.  e.g.: TBL: To Be Learned  Estimate the total number of person-hours: Number of persons times the number of hours to complete component phases. (e.g.: 4persons\*36hours each (~3hours per week, on average) = 144 person-hours | | |