Project Tender

Project: Real-time Geospatial Data Processor and Visualiser  
Client: Werner Raath, Software Developer at AFIS, TerraNexus

Team: Ambitious Designs  
Killian Kieck, Stephen Swanepoel, Dian Veldsman, Tim Kirker  
Department of Computer Science, University of Pretoria

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The Team

**Killian Ferdinand Noel Kieck**



**Interests**

* Programming.
* Reading.
* Sports.
* Technology.
* Space.
* Gaming.

**Technical Skills**

* Information Technology.
* Coding / Programming (Java, C, C#, C++, JavaScript / jQuery, HTML / css, android).
* Database design and management.
* Software design and development.
* Computer networking.
* Testing.

**Past experience**

* Web design.

**Non-technical strengths**

* Quick Learner.
* Communications skills.
* Initiative.

**Why I want to do the project:**

I have a good knowledge on web-interface design and is an opportunity to improve my skills and learning to visualize the data on the site will be an interesting and rewarding experience. This project also has the potential to help people.

**Stephen Swanepoel**



**Interests**

* Programming.
* Nature and wildlife.
* Sports.
* Technology.

**Technical Skills**

* Information Technology.
* Programming (Java, C, C#, C++, JavaScript, PHP, jQuery, HTML, CSS).
* Database design and management.
* Software design and development.
* Computer networking (beginner).

**Past experience**

* Web design.

**Non-technical strengths**

* Quick Learner.
* Good communications skills.
* Initiative.
* Team player.

**Why I want to do the project:**

From a developers aspect I am interested in this project as I feel it will push me out of my comfort zone and become an interesting learning outcome. This project will appeal to two large factors in my life: software development and nature so there will be no lack of interest in the project and the software desired can be incredibly helpful to some.

**Dian Veldsman**



**Interests**

* Programming
* Reading
* Technology
* Gaming
* Watching Movies
* Snooker
* Surfing the Internet

**Technical Skills**

* Information Technology
* Coding / Programming (Java, C, C#, C++, JavaScript / jQuery, HTML / CSS, Android, Python)
* Database design and management
* Software design and development
* Computer networking
* GoF Design Patterns
* Concurrent Systems
* Testing

**Past experience**

* Web design
* Android development

**Non-technical strengths**

* Good coding habits
* Active participation
* Problem solving
* Willingness to learn
* Team player
* Hard working

**Why I want to do the project:**

Huge amount of live data is now available and accessible via the internet. This information could provide vital assistance to rescue services responding to these disasters. This project will allow rescuers to warn a community of incoming natural disaster. The project will also allow me to develop new and diverse skills in the form of real-time data processing and visualizing of data.

**Tim Kirker**



**Interests**

* Sporting activities (both spectating as well as participating).
* Computing whether it be programming or online gaming.
* Music (both listening to it as well as playing musical instruments).
* Reading and keeping up to date with current affairs.

**Technical Skills**

* Programming (Java, C++, JavaScript, Microsoft access, PHP and android development).

**Past experience**

* Free-lance web developer, mathematics tutor and various promotional jobs in the retail sector.

**Non-technical strengths**

* Outgoing
* Good communications skills.
* Hard working.
* Diligent.
* Work well under pressure.

**Why I want to do the project:**

Natural disasters are incredibly detrimental to natural and urban environment, as well as agriculture. Being involved in this project would assist in timely awareness of threats to the surrounding area and allow for rapid response. It would be an enriching experience being involved in a project with such potential to prevent devastation. This project would also act as an opportunity for me to improve my skill set and increase my knowledge in computing.

Project Execution

**Development methodology:**

**How we intend to keep you informed about the status of your project:**

**Initial ideas for solving some of the technical challenges:**

**Technologies we plan on using:**

**What you (the client) will receive at the end of the project:**