Ontario Engineering Competition

2017

Programming Competition

User Manual

GPC Power Monitoring and Control System

Carleton University Team 1

**Charles Bergeron**

**Christopher Briglio**

**David Briglio**

**Daniel Sauvé**

Table of Contents

[GPS Power Monitoring and Control System 3](#_Toc473315489)

[Running The Program 3](#_Toc473315490)

# GPS Power Monitoring and Control System

The GPS Power Monitoring and Control System is a program designed to autonomously route and monitor power distribution for all of GPS's power grid. The system was built to handle power outages within the grid by dynamically calculating the shortest path from all houses to available power sources. It is also focused on maximizing profits by taking into account power consumption and transmission costs when calculating power distribution paths. The program was designed to be a simple, user friendly experience providing all relevant, up-to-date information at the click of a button.

# Running The Program

Take the program folder and place it on your computer. Once you have all the necessary files on the computer you may run the programs using the .exe file included in the main directory.

Ensure that Java version 8 or later is installed on your computer. To check if Java 8 is installed on your computer, please visit [https://www.**java**.com/**verify**/](https://www.java.com/verify/%20)to check if Java is installed on your machine, and if it is up to date. To download Java, visit <https://www.java.com/en/download/>.