**Research Plan**

Instructions: Using the suggested research activities presented at the end of each lecture, identify at least one activity that you are most interest in and will be involved in upcoming months.

**Faculty Name:** Weining Feng

**Email:** fengw@uhd.edu

**Institution:** University of Houston-Downtown

**Title of the Research:** SCADA System for a Campus Microgrid

**Will it be a collaborative work with other partners (if yes, name of the partner):**

Currently reaching out to potential industrial collaborators

**Objectives of Activity:**

To study wireless communication technologies and software platform to develop of SCADA system for UHD campus microgrid.

**Description of the activity:**

1. Assess field level data communication structure (hardware and protocols)
2. HMI software platform development
3. System level infrastructure and integration.

**Possible deliverables/output (a product, software, article, etc.):**

**A scalable SCADA system which provides real-time status report of the campus microgrid.**

**Expected Students involved:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Name** | **Email** | **Field of interest** | **Hours/week working** | **Minority?** | **Female Minority?** |
| Daniel Perez | danielreyes\_2010@hotmail.com | CIET[[1]](#footnote-1) | 10 hrs | Yes |  |
| Belen Garcia | blimick@gmail.com | CIET | 10 hrs | Yes | Yes |
| Leslie Lopez | Leslie lopezleslie93@gmail.com | CIET | 10 hrs | yes | yes |

1. Control and Instrumentation Engineering Technology (CIET) [↑](#footnote-ref-1)