**EMPLOYEE WEEKLY REPORT**

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| Engineer Name | Nguyen Phuc Toan |  |  |
| Department | Intern | Report date | June 8th, 2025 |

1. **Activities completed this week**

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| **Description of activities, task, duty, or responsibility** | **Result (done/delayed)** | **Note** |
| Sketch the Ideal for a smart garden sensor/weather station. | Done |  |
| Research about soil moisture sensor | Delayed |  |
| Simulated capacitive moisture sensor | Done | Branch Tu\_tuoi\_nuoc |
| Design and testing capacitive sensor | Delayed |  |
| Research about POE module | Delayed |  |
| Design and test POE module | Delayed |  |

**Note Description:**

1. Need to deeper understanding about parasite capacitive on PCB copper trace in high speed operation, so design and testing can’t done till more research is done.
2. Poe module will be build in with the ethernet shield, later will be redesign into one module.
3. Capacitive sensor will be use for both rain and moisture sensor.
4. **Activities to be started next week**

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| **Description of activities, task, duty, or responsibility** | **2** | | **3** | | **4** | | **5** | | **6** | | **7** |
| * Find out more about poe chip |  |  | x |  |  |  | x | x |  |  |  |
| * Get the frequency range for capacitive sensor for water with and with salt, mineral. | x |  |  | x |  |  |  |  |  |  |  |
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1. **Thing that went particularly well this week**

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1. **Thing that was the most challenging this week**

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1. **Self-Evaluation: (Circle one)**

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| **Reporter** | |
| *(Signature)*  Toan250609  Name: Nguyen Phuc Toan  Title: Intern  Dept: |  |