

Perturb & Observe Algorithm (Transmitting via CAN-BUS)

```
Program starting...
CAN Bus Shield successfully initialized!

Input Readings:
Inputs: Voltage: 45.213200, Current: 1.232430, Power: 55.722103
Outputs: Voltage: 119.28, Current: 0.89, Power: 106.52
Efficiency: 191.16 %

CAN_BUS transmitting...
OutVoltage: 119.2810
InCurrent: 1.2324
InVoltage: 30.4264
OutCurrent: .8930
Efficiency: 191.1592

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Inputs: Voltage: 45.213200, Current: 1.232430, Power: 55.722103
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CAN_BUS transmitting...
OutVoltage: 119.2810
InCurrent: 1.2324
InVoltage: 45.2132
OutCurrent: .8930
Efficiency: 191.1592

Input Readings:
Inputs: Voltage: 45.213200, Current: 1.232430, Power: 55.722103
Outputs: Voltage: 119.28, Current: 0.89, Power: 106.52
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CAN_BUS transmitting...
OutVoltage: 119.2810
InCurrent: 1.2324
InVoltage: 45.2132
OutCurrent: .8930
Efficiency: 191.1592
```



CAN-BUS Shield Receiver (Receiving with ID #7)

```
SEED_RECEIVE Program Starting...
CAN Bus Shield successfully initialized!
CAN-BUS filtering messages with ID: 7
{ID: 7 | Data: 119.2810}
{ID: 7 | Data: 1.2324}
{ID: 7 | Data: 30.4264}
{ID: 7 | Data: .8930}
{ID: 7 | Data: 191.1592}
{ID: 7 | Data: 119.2810}
{ID: 7 | Data: 1.2324}
{ID: 7 | Data: 45.2132}
{ID: 7 | Data: .8930}
{ID: 7 | Data: 191.1592}
{ID: 7 | Data: 119.2810}
{ID: 7 | Data: 1.2324}
{ID: 7 | Data: 45.2132}
{ID: 7 | Data: .8930}
{ID: 7 | Data: 191.1592}
{ID: 7 | Data: 119.2810}
{ID: 7 | Data: 1.2324}
{ID: 7 | Data: 45.2132}
{ID: 7 | Data: .8930}
{ID: 7 | Data: 191.1592}
{ID: 7 | Data: 119.2810}
{ID: 7 | Data: 1.2324}
{ID: 7 | Data: 45.2132}
{ID: 7 | Data: .8930}
{ID: 7 | Data: 191.1592}
{ID: 7 | Data: 119.2810}
```