

Checkpoint

If i2cRead(&data) == true
calX = data[0]
calY = data [1]

Power fail

calZ = data[2]
return;

Checkpoint

If i2cRead(&data) == false
return;

```
function sensorMagInit {
```

Checkpoint

```
    int rawData[3];  
    if (i2cRead(&rawData[0])) {  
        calX = rawData[0] + 128;  
        calY = rawData[1] + 128;  
        Power fail  
        calZ = rawData[2] + 128;  
    }  
}
```