



## *Ultra-Sonic Meter Reader*

**TEAM MEMBERS:** *Darren, Austin, Carter*

**REPORT NUMBER:** *Report 2*

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### **THIS WEEK'S TASKS:**

*T4 – SAMD21 Implement/Research Timers  
T5 – SAMD21 Implement/Research Interrupts  
T6 – SAMD21 Implement/Research Watchdog  
T7 – SAMD21 Implement/Research Clocks*

*T16 – Add ATSamD20 to schematic  
T17 – Add ENC28j to schematic  
T18 – Add WINC1500 to schematic*

*T23 – Research Ultra-Sonic sensors  
T24 – Determine/Order piezo for testing*

### **PROGRESS THIS WEEK:**

*T4 – Darren, Can work and understand basic Timers on the SAMD21  
T5 – Darren, Can work and understand basic Interrupts on the SAMD21  
T6 – Darren, Can work and understand basic Watchdog on the SAMD21  
T7 – Darren, Can work and understand basic Clocks on the SAMD21*

*T16 – Austin, SAMD20 schematic is \*complete.  
T17 – Austin, ENC28j schematic is \*complete.  
T18 – Austin, WINC1500 schematic is in progress.*

*T23 – Carter, Main research, initial understanding complete.  
T24 – Carter, Working through different options for sensors that work within our parameters.*

**NEXT WEEK'S TASKS:**

*T4 – SAMD21 Implement/Research Timers, Darren*

*T5 – SAMD21 Implement/Research Interrupts, Darren*

*T6 – SAMD21 Implement/Research Watchdog, Darren*

*T7 – SAMD21 Implement/Research Clocks, Darren*

*T9 – Interface ATWINC1500 with devboard, Darren*

*T18 – Add WINC to schematic, Austin*

*T9 – Research communicating/uploading firmware to D20, Austin*

*T20 – Implement communication port to schematic, Austin*

*T24 – Determine/Order peizos, Carter*

*T25 – Build prototypes using ordered sensors, Carter*

*T26 – Build testing pipe, Carter*