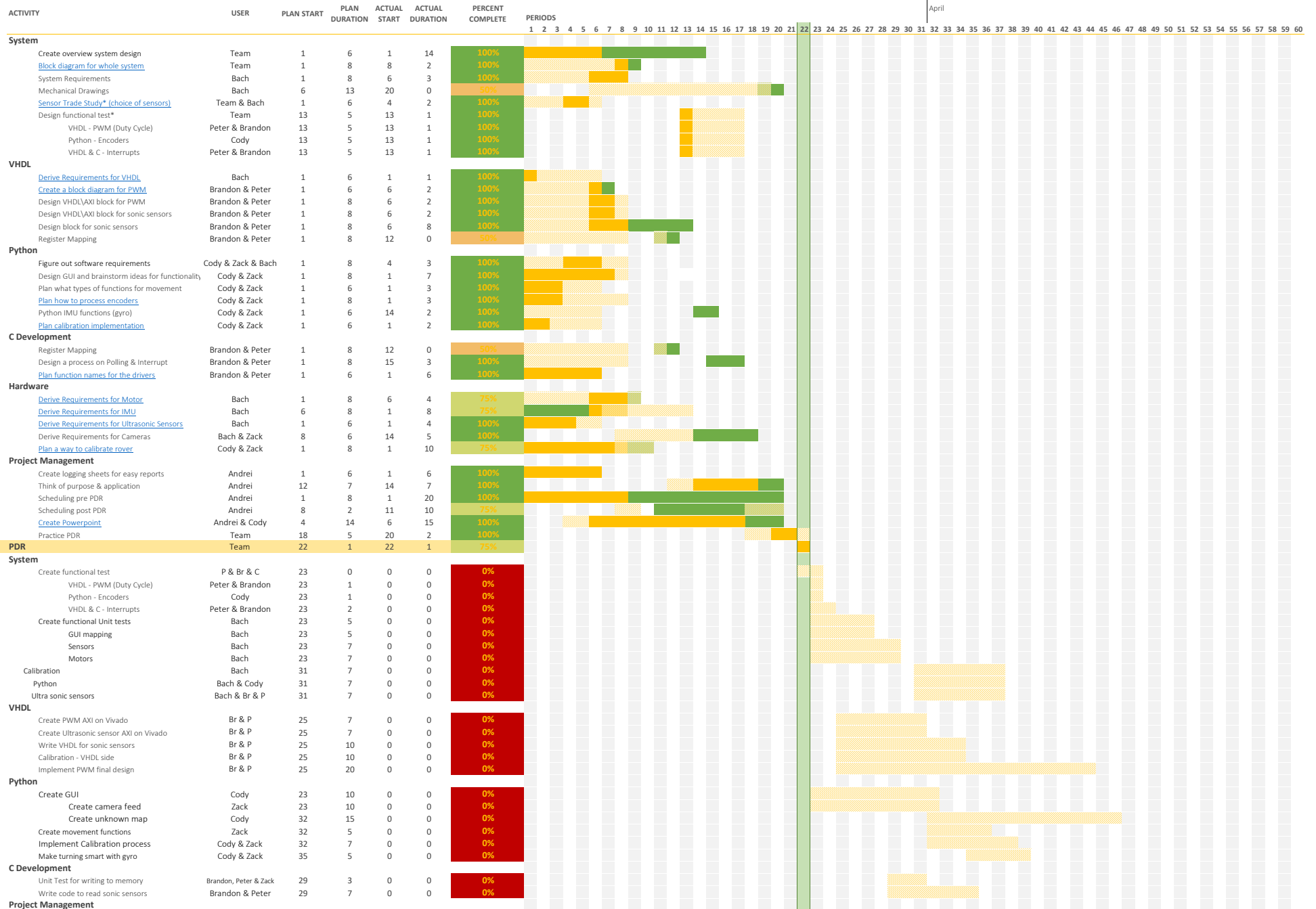# New Folder Project Planner

3/22/2018    Period Highlight: 22

Legend: Plan Duration · Actual Start · % Complete · Actual (beyond plan) · % Complete (beyond plan)

| ACTIVITY | USER | PLAN START | PLAN DURATION | ACTUAL START | ACTUAL DURATION | PERCENT COMPLETE |
|---|---|---|---|---|---|---|
| **System** | | | | | | |
| Create overview system design | Team | 1 | 6 | 1 | 14 | 100% |
| Block diagram for whole system | Team | 1 | 8 | 8 | 2 | 100% |
| System Requirements | Bach | 1 | 8 | 6 | 3 | 100% |
| Mechanical Drawings | Bach | 6 | 13 | 20 | 0 | 90% |
| Sensor Trade Study* (choice of sensors) | Team & Bach | 1 | 6 | 4 | 2 | 100% |
| Design functional test* | Team | 13 | 5 | 13 | 1 | 100% |
| VHDL - PWM (Duty Cycle) | Peter & Brandon | 13 | 5 | 13 | 1 | 100% |
| Python - Encoders | Cody | 13 | 5 | 13 | 1 | 100% |
| VHDL & C - Interrupts | Peter & Brandon | 13 | 5 | 13 | 1 | 100% |
| **VHDL** | | | | | | |
| Derive Requirements for VHDL | Bach | 1 | 6 | 1 | 1 | 100% |
| Create a block diagram for PWM | Brandon & Peter | 1 | 6 | 6 | 2 | 100% |
| Design VHDL\AXI block for PWM | Brandon & Peter | 1 | 8 | 6 | 2 | 100% |
| Design VHDL\AXI block for sonic sensors | Brandon & Peter | 1 | 8 | 6 | 2 | 100% |
| Design block for sonic sensors | Brandon & Peter | 1 | 8 | 6 | 8 | 100% |
| Register Mapping | Brandon & Peter | 1 | 8 | 12 | 0 | 5% |
| **Python** | | | | | | |
| Figure out software requirements | Cody & Zack & Bach | 1 | 8 | 4 | 3 | 100% |
| Design GUI and brainstorm ideas for functionality | Cody & Zack | 1 | 8 | 1 | 7 | 100% |
| Plan what types of functions for movement | Cody & Zack | 1 | 6 | 1 | 3 | 100% |
| Plan how to process encoders | Cody & Zack | 1 | 8 | 1 | 3 | 100% |
| Python IMU functions (gyro) | Cody & Zack | 1 | 6 | 14 | 2 | 100% |
| Plan calibration implementation | Cody & Zack | 1 | 6 | 1 | 2 | 100% |
| **C Development** | | | | | | |
| Register Mapping | Brandon & Peter | 1 | 8 | 12 | 0 | 50% |
| Design a process on Polling & Interrupt | Brandon & Peter | 1 | 8 | 15 | 3 | 100% |
| Plan function names for the drivers | Brandon & Peter | 1 | 6 | 1 | 6 | 100% |
| **Hardware** | | | | | | |
| Derive Requirements for Motor | Bach | 1 | 8 | 6 | 4 | 75% |
| Derive Requirements for IMU | Bach | 6 | 8 | 1 | 8 | 75% |
| Derive Requirements for Ultrasonic Sensors | Bach | 1 | 6 | 1 | 4 | 100% |
| Derive Requirements for Cameras | Bach & Zack | 8 | 6 | 14 | 5 | 100% |
| Plan a way to calibrate rover | Cody & Zack | 1 | 8 | 1 | 10 | 75% |
| **Project Management** | | | | | | |
| Create logging sheets for easy reports | Andrei | 1 | 6 | 1 | 6 | 100% |
| Think of purpose & application | Andrei | 12 | 7 | 14 | 7 | 100% |
| Scheduling pre PDR | Andrei | 1 | 8 | 1 | 20 | 100% |
| Scheduling post PDR | Andrei | 8 | 2 | 11 | 10 | 75% |
| Create Powerpoint | Andrei & Cody | 4 | 14 | 6 | 15 | 100% |
| Practice PDR | Team | 18 | 5 | 20 | 2 | 100% |
| **PDR** | Team | 22 | 1 | 22 | 1 | 75% |
| **System** | | | | | | |
| Create functional test | P & Br & C | 23 | 0 | 0 | 0 | 0% |
| VHDL - PWM (Duty Cycle) | Peter & Brandon | 23 | 1 | 0 | 0 | 0% |
| Python - Encoders | Cody | 23 | 1 | 0 | 0 | 0% |
| VHDL & C - Interrupts | Peter & Brandon | 23 | 2 | 0 | 0 | 0% |
| Create functional Unit tests | Bach | 23 | 5 | 0 | 0 | 0% |
| GUI mapping | Bach | 23 | 5 | 0 | 0 | 0% |
| Sensors | Bach | 23 | 7 | 0 | 0 | 0% |
| Motors | Bach | 23 | 7 | 0 | 0 | 0% |
| Calibration | Bach | 31 | 7 | 0 | 0 | 0% |
| Python | Bach & Cody | 31 | 7 | 0 | 0 | 0% |
| Ultra sonic sensors | Bach & Br & P | 31 | 7 | 0 | 0 | 0% |
| **VHDL** | | | | | | |
| Create PWM AXI on Vivado | Br & P | 25 | 7 | 0 | 0 | 0% |
| Create Ultrasonic sensor AXI on Vivado | Br & P | 25 | 7 | 0 | 0 | 0% |
| Write VHDL for sonic sensors | Br & P | 25 | 10 | 0 | 0 | 0% |
| Calibration - VHDL side | Br & P | 25 | 10 | 0 | 0 | 0% |
| Implement PWM final design | Br & P | 25 | 20 | 0 | 0 | 0% |
| **Python** | | | | | | |
| Create GUI | Cody | 23 | 10 | 0 | 0 | 0% |
| Create camera feed | Zack | 23 | 10 | 0 | 0 | 0% |
| Create unknown map | Cody | 32 | 15 | 0 | 0 | 0% |
| Create movement functions | Zack | 32 | 5 | 0 | 0 | 0% |
| Implement Calibration process | Cody & Zack | 32 | 7 | 0 | 0 | 0% |
| Make turning smart with gyro | Cody & Zack | 35 | 5 | 0 | 0 | 0% |
| **C Development** | | | | | | |
| Unit Test for writing to memory | Brandon, Peter & Zack | 29 | 3 | 0 | 0 | 0% |
| Write code to read sonic sensors | Brandon & Peter | 29 | 7 | 0 | 0 | 0% |
| **Project Management** | | | | | | |

| ACTIVITY | USER | PLAN START | PLAN DURATION | ACTUAL START | ACTUAL DURATION | PERCENT COMPLETE |
|---|---|---|---|---|---|---|
| Develop Tech Memo | Team | 41 | 6 | 0 | 0 | 0% |
| PWM? | ? | 41 | 6 | 0 | 0 | 0% |
| Python | ? | 41 | 6 | 0 | 0 | |
| Rover? | Andrei | 41 | 6 | 0 | 0 | 0% |
| **CDR** | Team | 47 | 1 | 47 | 1 | 0% |
| **After We Finish** | | | | | | |
| Create sound board* | Cody & Andrei | TBA | TBA | 0 | 0 | 0% |
| Implement Wireless Speaker | **Andrei** | TBA | TBA | 0 | 0 | 0% |

PERIODS

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60

April