

Project Status Letter

PSL number: 04

Covering period from: 02/03/18 to 02/16/18

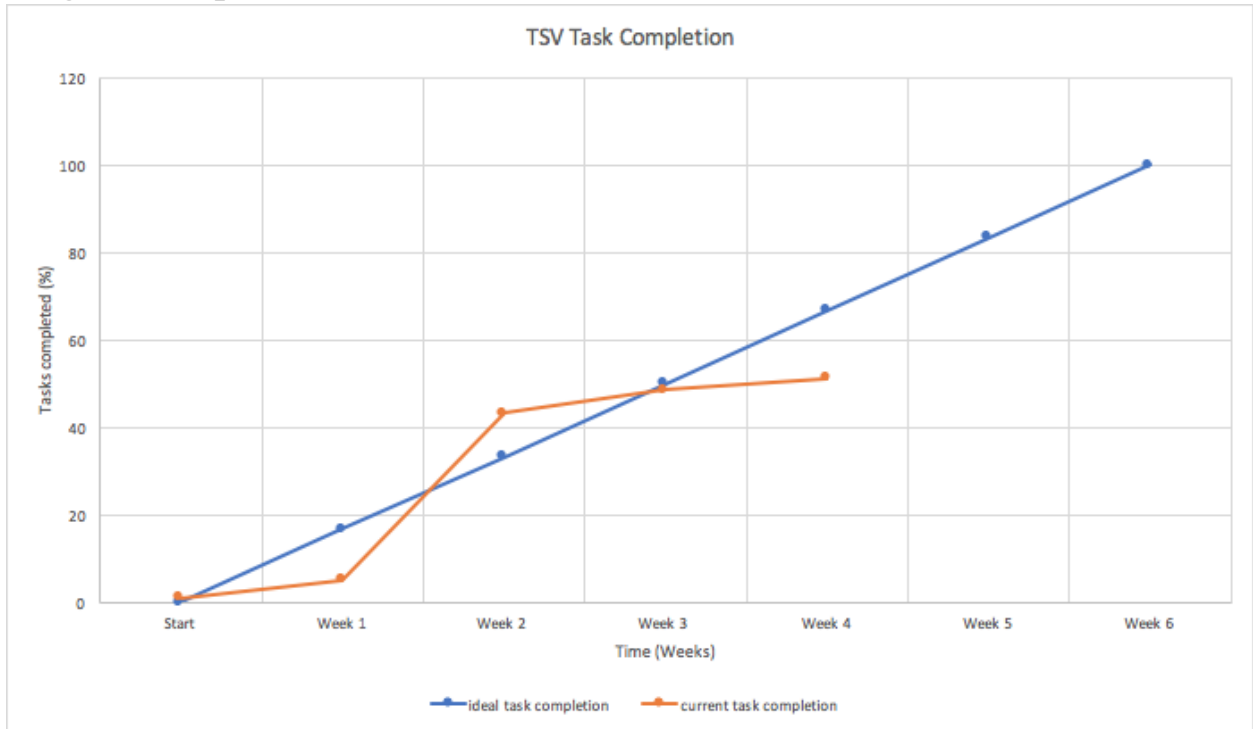
Prepared by: Nakul Talwar & Kevin Kong & Amrit Bhandari

Tasks Summary from previous week:

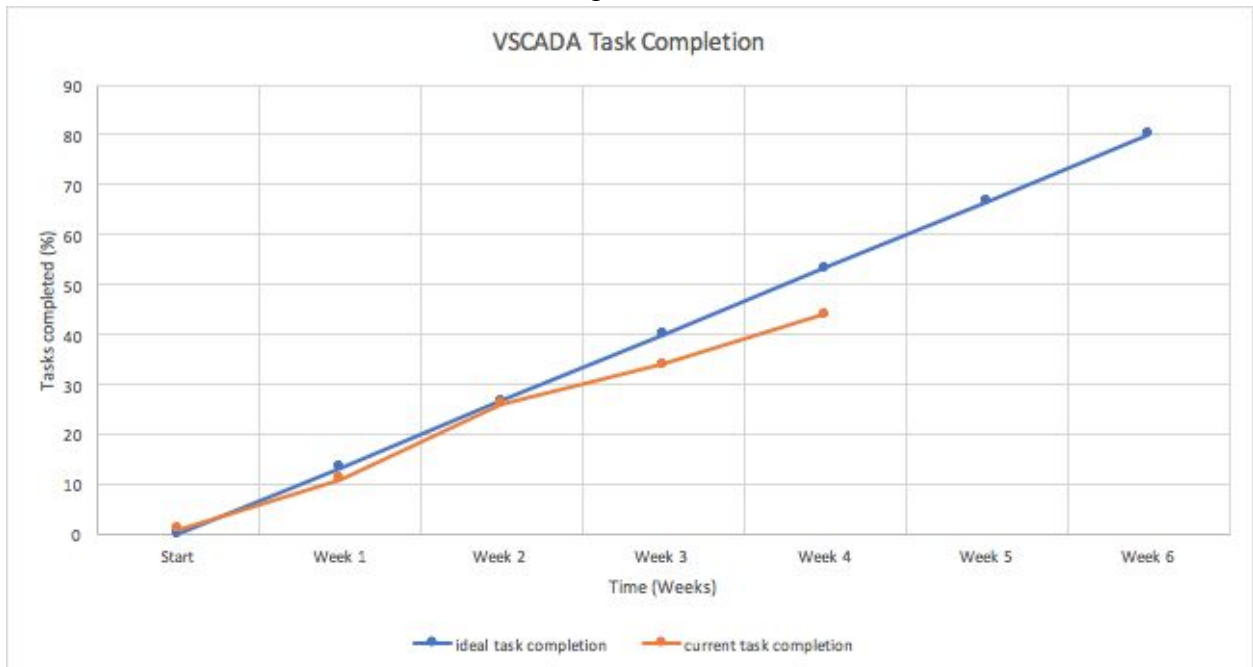
Team	Tasks completed	Tasks planned for next week	Proposed changes	Overdue WBS items
TSV	<p>Sarah: TSV 1.4 - Diagram for monitoring board connections TSV 1.5 - Parts ordered for new AMS boards</p> <p>Waseh: TSV 3.3.1 - Correct Wiring of Buttons TSV 3.3.2 - Added & Ordered USB cables TSV 3.3.3 - Grounding clamps selected</p>	<p>Sarah: TSV 1.3 - Connect monitoring connector to one AMS board (2/19) TSV 1.7 - Install I2C cables (2/23)</p>	N.A	N.A
Dyno	<p>Chen: Dyno 4.1 - Dyno Software rework Dyno 4.2 - Improved Dyno Software performance</p>	N.A	N.A	N.A
Cooling System	<p>Russell: Cooling 2.1 - Design new cooling system box/setup Cooling 2.2 - Fabricate and acquire new cooling system</p>		N.A	N.A
VSCADA	<p>Connor: SCADA 2.4 - Log data that exceeds threshold.</p> <p>Geoff: SCADA 2.3 - Processing binary CAN data</p>	<p>Connor: SCADA 3.7 - Display data on GLV display SCADA 2.5 - Drop out drive mode (2/23)</p> <p>Geoff: SCADA 3.4 - Setup USB dashboard display (2/19) SCADA 3.2 - Create UML diagram</p>	N.A	<p>Geoff: SCADA 3.2 - Create UML Diagram</p>

TSI	Peter: TSI 3.2 - Wiring Diagram	Austin: TSI 2.3 - Test the temperature Sensor TSI 2.4.7 - Ability to receive data (2/19) TSI 2.4.5 - Ability to set throttle to 0 from SCADA (2/19) Peter: TSI 1.1.3 - Finish TSI Schematic TSI 1.2 - Delivered and order PCB Thomas: TSI 2.1 - Current Measuring Delivered TSI 2.2 - IMD Status Delivered TSI 2.4 - CAN Bus communication with SCADA (2/19) TSI 2.6 - Voltage Measurement	Break out board not needed any more	TSI 1.1.3 - Finish TSI Schematic TSI 1.2 - Delivered and order PCB TSI 2.1 - Current Measuring Delivered TSI 2.2 - IMD Status Delivered TSI 2.4 - CAN Bus communication with SCADA TSI 2.6 - Voltage Measurement
Interconnect	Matt: IC 1.3.4 - order prepare more orange cables IC 1.2.7 - Necessary tools listed/ordered	Matt: IC 1.3.3 - Install Amphenol connectors and shielded cable	N.A	IC 1.3.3 - Install Amphenol connectors and shielded cable IC 1.4.2 - research cables that need strain relief
GLV	Kevin: GLV 1: Functional SSOK Lamp	Kevin & Russell GLV 2: Functional GLV in a new case (2/19)	Edited GLV 1.2 to SSOK rework	N.A
Management	Kevin & Nakul & Amrit MGMT 1.3 - Project Status Letter - Week 3 Waseh: MGMT 8.8 ESF-2 delivered	Kevin & Nakul & Amrit MGMT 1.4 - Project Status Letter - Week 4 Nakul: MGMT 6 - Rules Checklist	N.A	MGMT 8.8 ESF-2 delivered

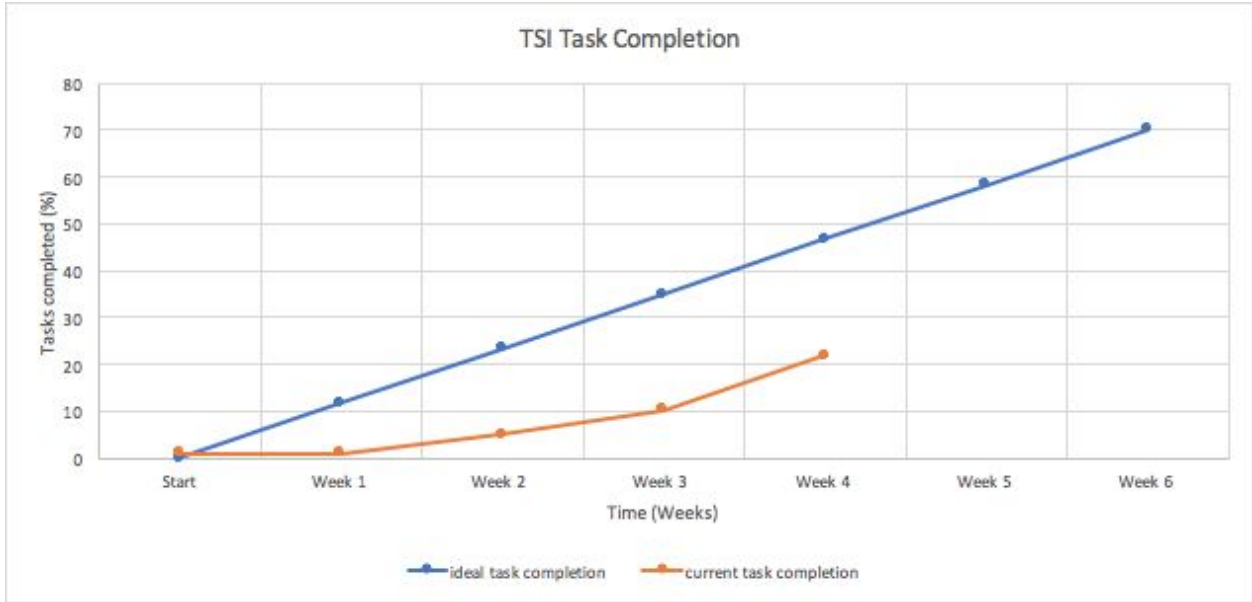
Progress Graph:



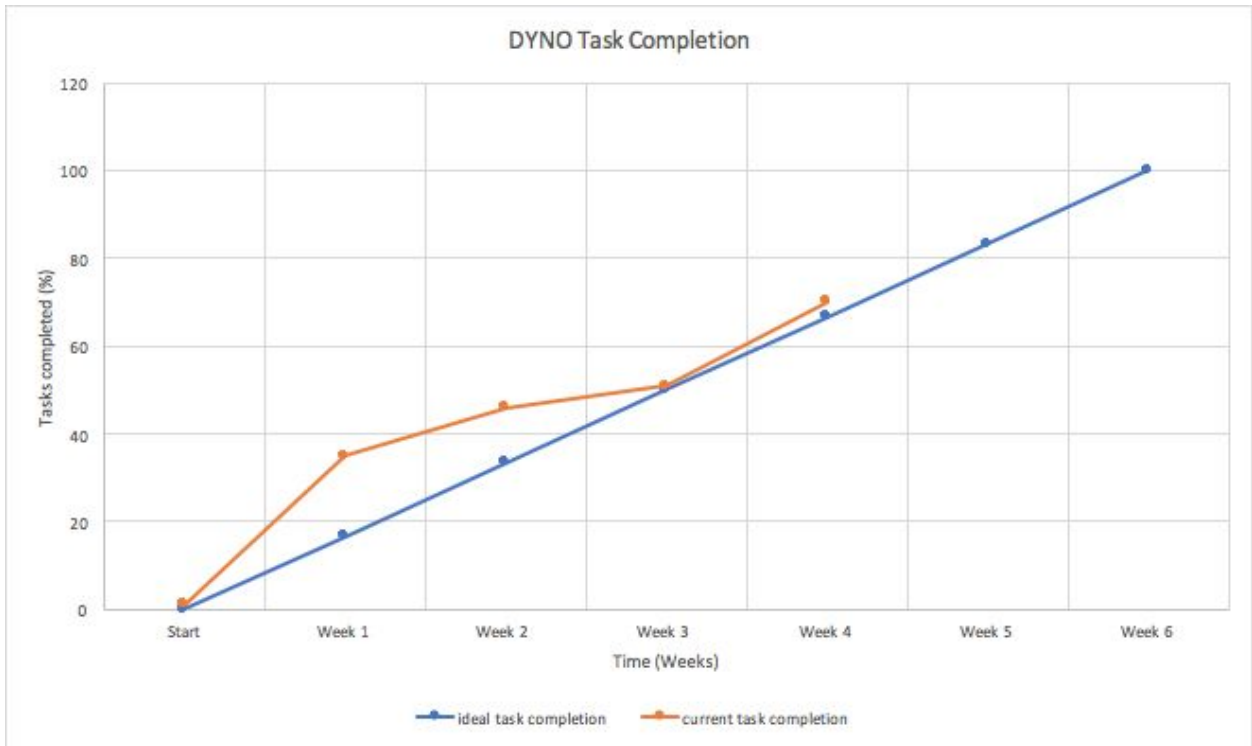
TSV Completed: 51.25%



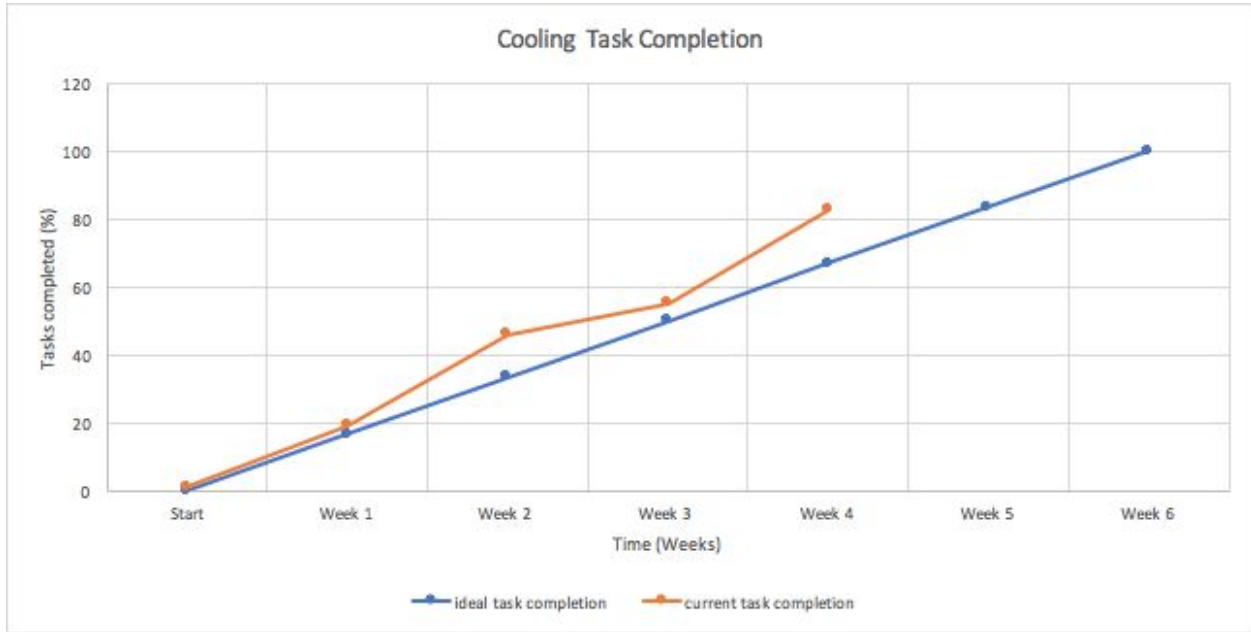
VSCADA Completed: 44%



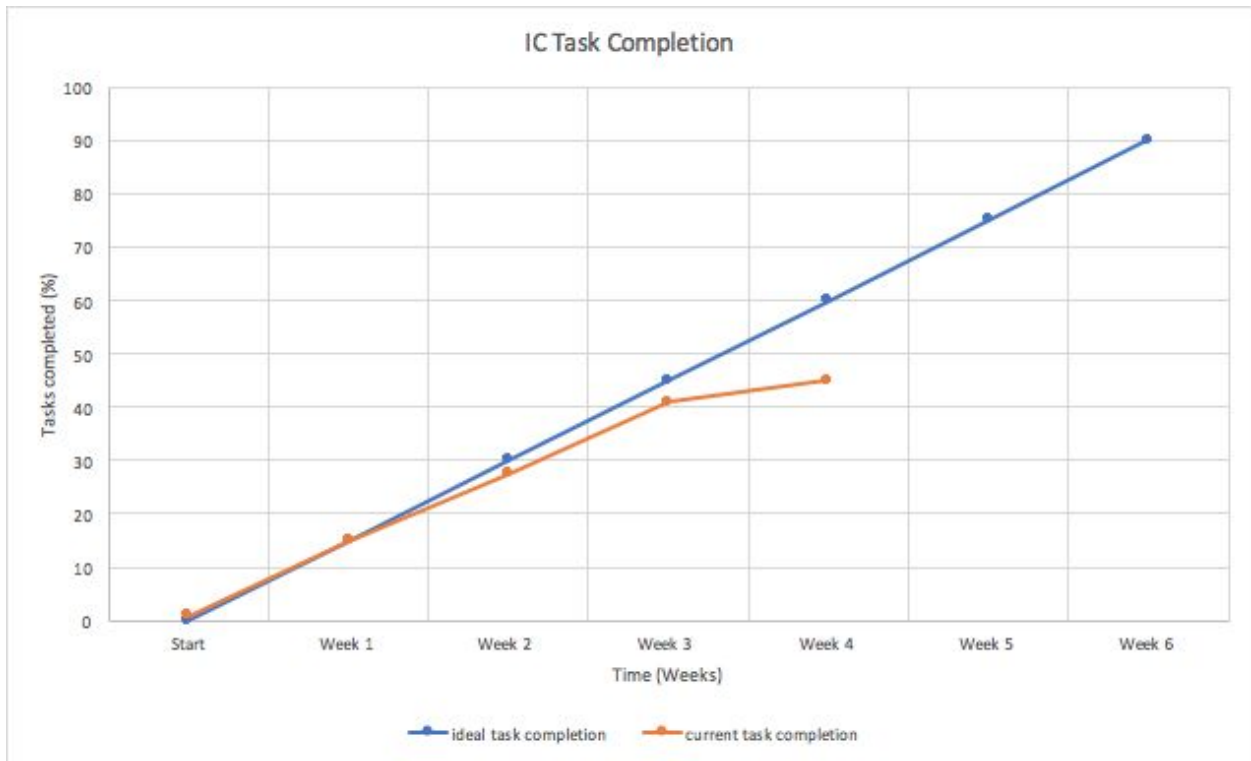
TSI Completed: 21.85%



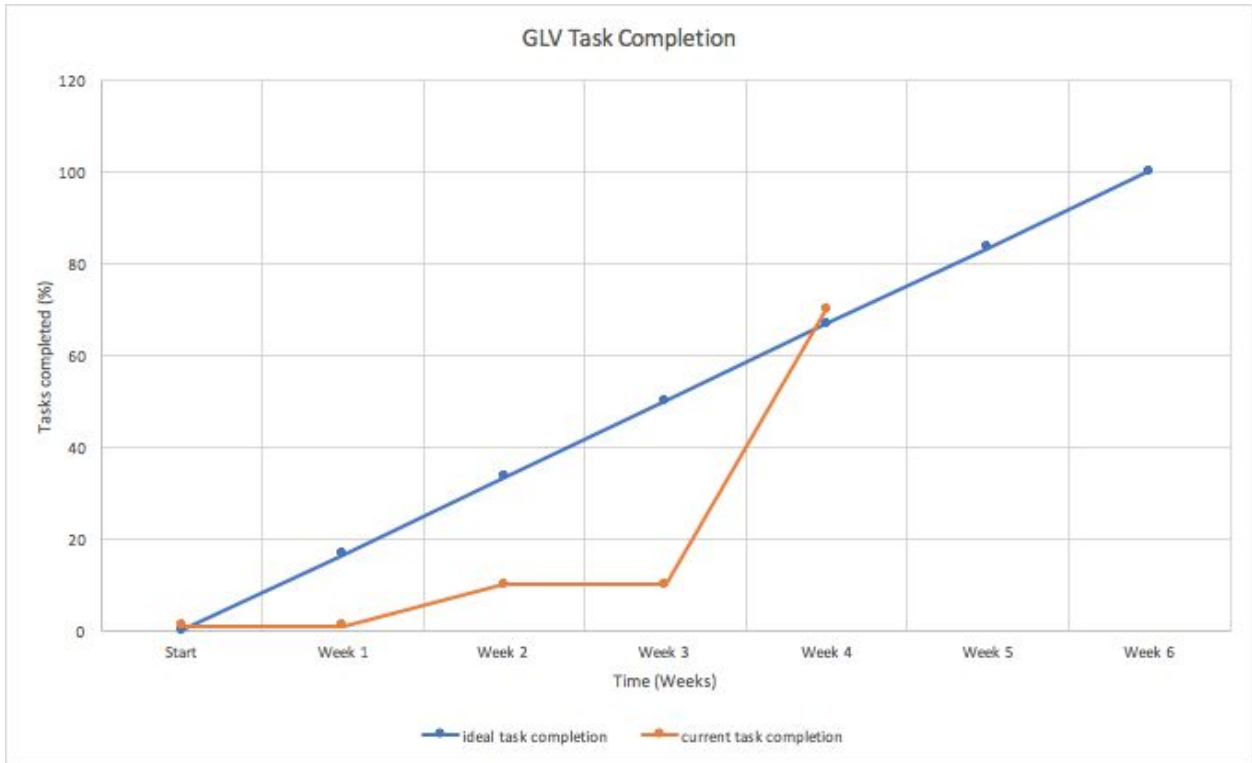
Dyno completed: 70%



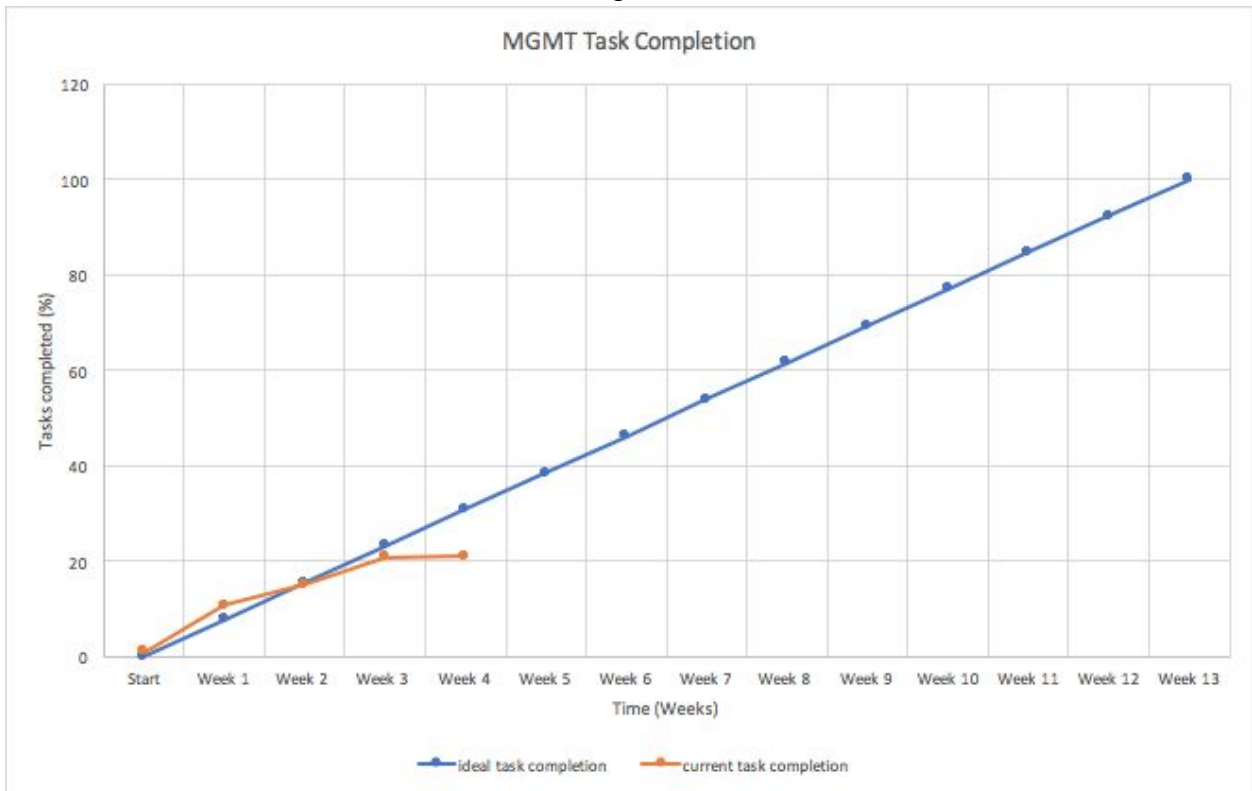
Cooling completed: 82.5%



IC Completed: 45%



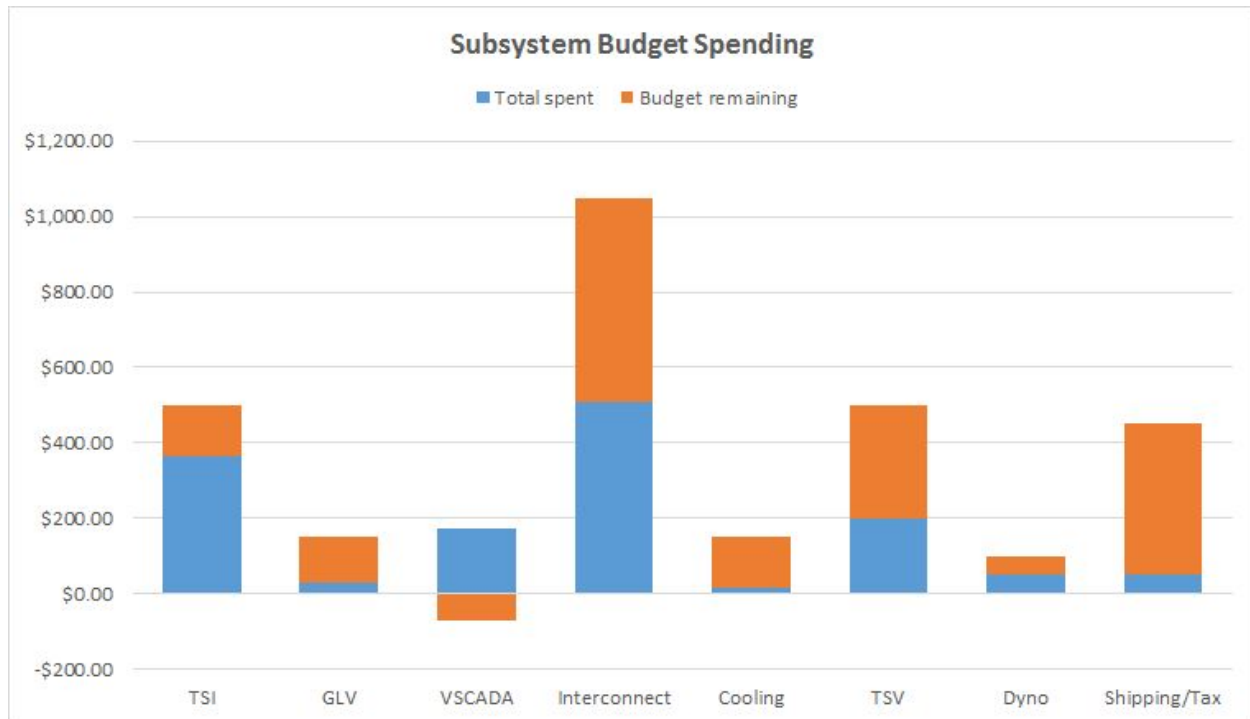
GLV Completed: 70%

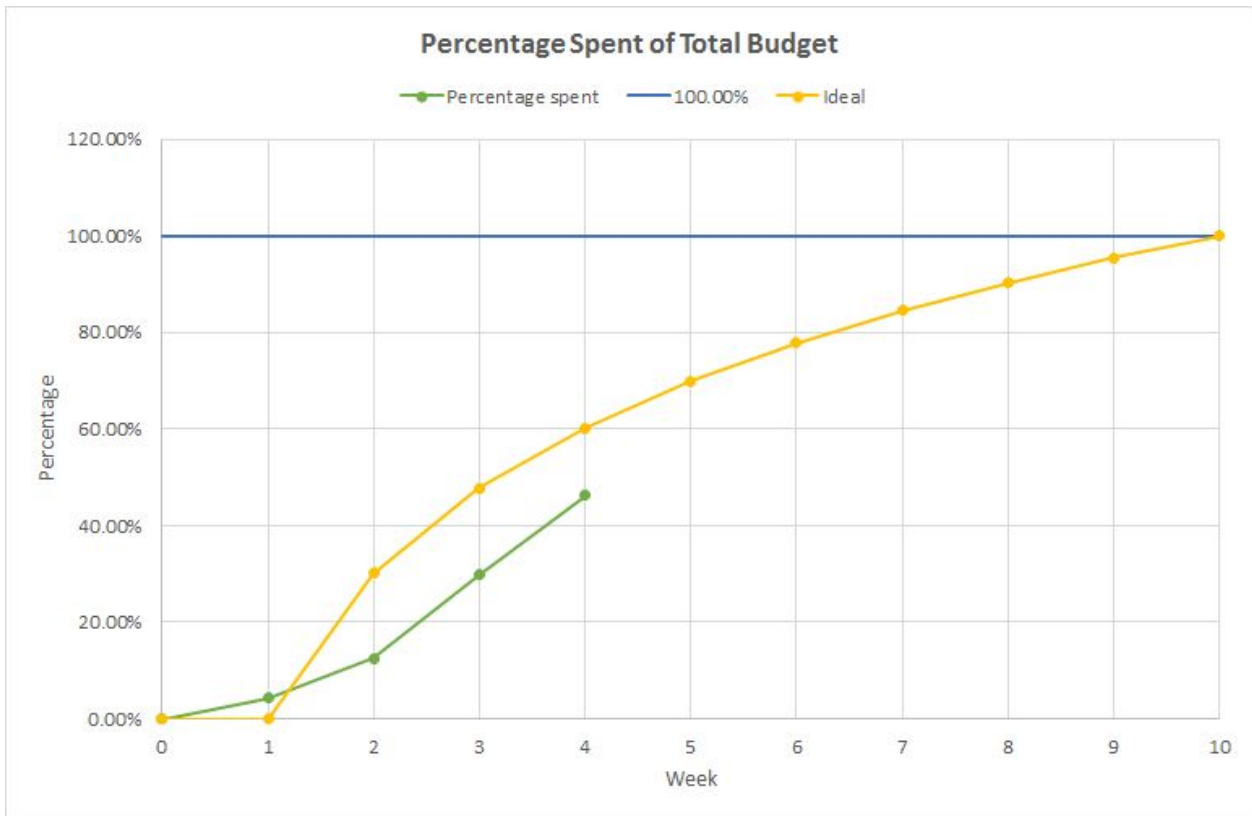
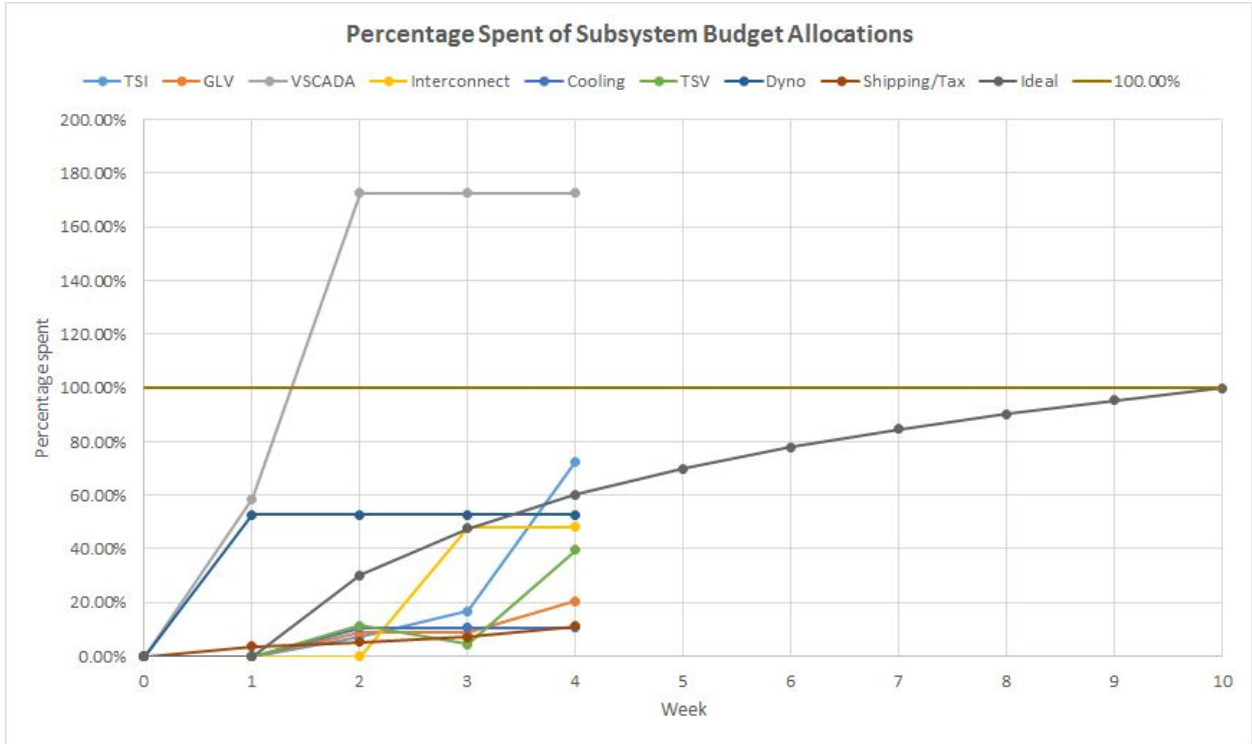


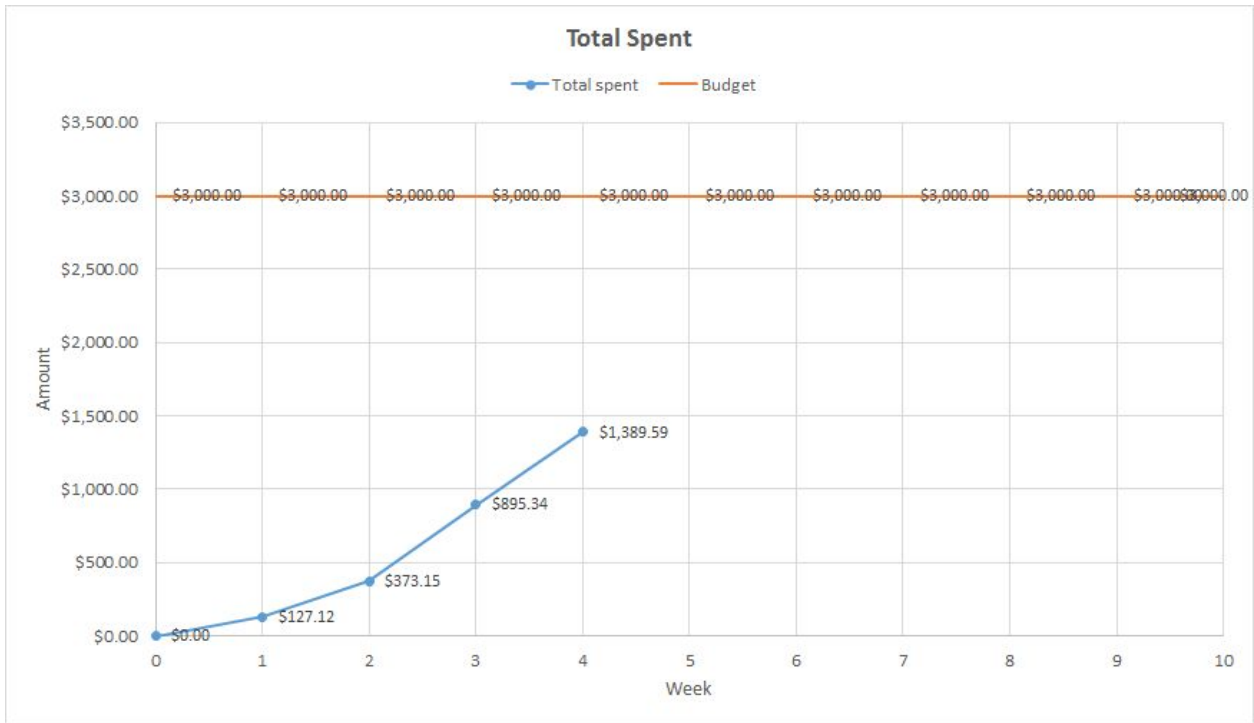
MGMT Completed: 21%

Purchasing Summary From Previous Week:

Subsystem	Spent this period	Spent to date	Budget Allocated	Budget Remaining	Percentage Spent
TSI	\$278.72	\$362.67	\$500.00	\$137.33	72.53%
GLV	\$17.97	\$30.95	\$150.00	\$119.05	20.63%
VSCADA	\$0.00	\$172.59	\$100.00	-\$72.59	172.59%
Interconnect	\$3.99	\$506.67	\$1,050.00	\$543.33	48.25%
Cooling	\$0.00	\$15.99	\$150.00	\$134.01	10.66%
TSV	\$175.60	\$198.09	\$500.00	\$301.91	39.62%
Dyno	\$0.00	\$52.80	\$100.00	\$47.20	52.80%
Shipping/Tax	\$17.97	\$49.83	\$450.00	\$400.17	11.07%
Total	\$494.25	\$1,389.59	\$3,000.00	\$1,610.41	46.32%







Appendix:

ECE Department Material Request

Course: ECE 492
Professor: Nadovich

Req Number:11

Requested By Amrit
Date 13-Feb-18
Email bhandara@lafayette.edu
Phone Number 610-905-8421

Vendor: Amazon
Web Site www.amazon.com
Phone (888) 280-4331
Ship By: Economy Ground

#	Quantity	Description	Unit Price	Requester	Total Price	Rcvd
1	3	Tripp Lite Universal Reversible USB	\$5.52	Waseh	\$16.56	
2	1	Pro Tie 33200 SAE 10 Pack Size 4	\$11.65	Waseh	\$11.65	

Subtotal:	\$28.21
Shipping Fees:	\$0.00
Grand Total:	\$28.21

Instructor Approval:

Department Approval:
(Over \$500)

Tripp Lite: ASIN: B00K86MVE4
Pro Tie: ASIN: B006IOZ3YU

ECE Department Material Request

Course: ECE 492
Professor: Nadovich

Req Number:12

Requester Amrit
Date 13-Feb-18
Email bhandara@lafayette.edu
Phone # 610-905-8421

Vendor: Mouser
Web Site www.mouser.com
Phone (888) 346-6873
Ship By: Economy Ground

#	Quantity	Description	Mouser #	Unit Price	Requester	Total Price	Rcvd
1	10	Headers and Wire Housings 6P	538-73838-0006	\$0.33	Sarah	\$3.32	16-Feb
2	10	Bourns Thick Film Resistors	652-PWR220T-20-R750F	\$3.58	Sarah	\$35.80	16-Feb
3	5	Transistor Output Optocoupler	859-LTV-357T	\$0.25	Sarah	\$1.25	16-Feb
4	15	Standoffs and Spacers .250"	534-1904E	\$0.70	Russell	\$10.56	16-Feb
5	15	Standoffs amd Spacers 1.125"	534-4835	\$0.49	Rusell	\$7.41	16-Feb
6	4	Pin & Socket Connectors	571-14450228	\$0.58	Austin	\$2.32	16-Feb
7	10	Automotive Fuses 32V 20A	576-0287020.PXCN	\$0.23	Waseh	\$2.32	16-Feb

Subtotal:	\$62.98
Shipping Fees:	\$4.99
Grand Total:	\$67.97

Instructor Approval:

Department Approval:
(Over \$500)

ECE Department Material Request

Course: ECE 492
Professor: Nadovich

Req Number:13

Requested By: Amrit
Date: 13-Feb-18
Email: bhandara@lafayette.edu
Phone Number: 610-905-8421

Vendor: Digi-Key
Web Site: www.digikey.com
Phone: 1-800-344-4539
Ship By: Economy Ground

#	Quantity	Description	Digikey Part #	Unit Price	Requester	Total Price	Rcvd
1	100	CONN TERM FEMALE 24-30AWG	WM9138CT-ND	\$0.097	Sarah	\$9.70	
2	20	CONN HDR VERT 6POS .100 TIN	WM4828-ND	\$1.046	Sarah	\$20.92	
3	10	IC REG BOOST ADJ 0.6A 8SOIC	LT1307BCS8#PBF-ND	\$4.23	Sarah	\$42.30	
4	10	IC MCU 8BIT 7KB FLASH 18SOIC	PIC16LF1827-I/SO-ND	\$1.52	Sarah	\$15.20	
5	5	TRANS NPN DARL 100V 8A TO-220	TIP102-BP-ND	\$1.29	Sarah	\$6.45	
6	2	DC/DC CONVERT 12V 1.25A	811-2783-ND	\$63.93	Peter	\$127.86	
7	5	RES SMD 82 OHM 1% 3W 2512	A121311CT-ND	\$0.85	Peter	\$4.25	
8	10	RES SMD 4.3K OHM 0.1% 1/8W	P4.3KDACT-ND	\$0.302	Peter	\$3.02	
9	10	TRIMMER 2K OHM 0.25W SMD	ST4ETB202CT-ND	\$1.176	Peter	\$11.76	
10	1	CAP ALUM 10UF 20% 450V SMD	493-6714-1-ND	\$1.19	Peter	\$1.19	

Subtotal:	\$200.35
Shipping Fees:	\$4.99
Grand Total:	\$205.34

Instructor Approval:

Department Approval:
(Over \$500)

ECE Department Material Request

Course: ECE 492
Professor: Nadovich

Req Number:14

Requested By: Amrit
Date: 13-Feb-18
Email: bhandara@lafayette.edu
Phone Number: 610-905-8421

Vendor: McMaster Carr
Web Site: www.mcmaster.com
Phone: (609) 689-3000
Ship By: Economy Ground

#	Quantity	Description	McMaster PN	Unit Price	Requester	Total Price	Rcvd
1	1	"Danger High Voltage" Labels 2-1/2" High x 1-3/4" Wide 10-Pack	5891T631	\$10.13	Amrit	\$10.13	14-Feb
2	4	Screw-Down Sure-Grip Submersible Cord Grip for 0.51"-0.71"	1013N13	\$32.08	Austin	\$128.32	14-Feb

Subtotal:	\$138.45
Shipping Fees:	\$4.99
Grand Total:	\$143.44

Instructor Approval:

Department Approval:
(Over \$500)

ECE Department Material Request

Course: ECE 492 Professor: Nadovich
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Req Number: 15

Requested By Amrit
Date 16-Feb-18
Email bhandara@lafayette.edu
Phone Number 610-905-8421

Vendor: Amazon
Web Site www.amazon.com
Phone (888) 280-4331
Ship By: Economy Ground

#	Quantity	Description	Unit Price	Requester	Total Price	Rcvd
1	1	Adafruit Flex Cable for Raspberry Pi Camera	\$3.99	Geoff	\$3.99	

Subtotal:	\$3.99
Shipping Fees:	\$3.00
Grand Total:	\$6.99

Instructor Approval:

Department Approval:
(Over \$500)

Adafruit: **ASIN:** B00QSJLWMW