



SSC Budget and Timeline Form - Semester Project Report

The **SSC Budget and Timeline Form - Semester Project Report** must be completed and submitted every semester regardless of the original application type. This form requires a list of updated project timelines and milestones and a detailed list of expenditures by category since the last submitted Semester Progress Report.

If you have questions, please email the SSC at Sustainability-Committee@illinois.edu.

GENERAL PROJECT INFORMATION

Project Title: Illini EV Concept EV3

Original Award Date (or Semester/Year)*: Fall 2024

(<*Awards are valid for 2 years from award date unless there is an approved Scope Change on

Total Amount of Award (Including Any Budget Increases Associated with Approved Scope Changes): \$ 59,935.97

Total Expenses This Period:** \$2,387.01

<**This field autopopulates based on your expense entries below. Do not edit.

Remaining Unspent Funds in Award*:** 57548.96

<***NOTE: The SSC will rescind remaining funds from completed and expired awards.

Expected Date of Project Completion: 5/1/2026

Date of This Application Submission: 5/15/2025

SCOPE & SCHEDULE

Referencing the project's original tasks and schedule (or revised tasks and/or schedule via approved Scope Change), detail the progress you have made on the project since your last semester report. Include start and end dates and % complete). Include the required semester project reports and the required final project report. Be as detailed as possible so that the SSC can fully evaluate the progress of this project. Insert additional rows if necessary.

Task	Start Date	End Date (or estimated)	% Complete
Self Driving Integration	24-Nov	26-Jan	20%
Airflow Simulation Project	24-Jun	25-Feb	70%
Inventory System Project	23-Sep	25-Mar	60%
Steering Wheel	24-Oct	25-Mar	100%
Suspension and Brakes Development	24-Sep	25-Feb	70%
Regenerative Braking	25-Feb	26-Jan	30%
Drivetrain Development	25-Jan	26-Mar	30%
Battery System Development	24-Nov	25-Mar	80%
FPGA Camera Project	24-Oct	25-Mar	100%
48V-5V Flyback Power Converter	24-Oct	25-Apr	60%
48V Lithium Ion Secondary Battery	24-Oct	25-Oct	70%
Accelerometer Board	24-Oct	2025-Mar	80%
Active Battery Management System	24-Nov	25-Sep	30%
Upgraded Battery Charger	24-Oct	2026-Jan	60%
Telemetry Board	24-Oct	2025-Dec	50%
Dashboard Upgrade	24-Oct	Oct-25	60%
Car Lights	24-Oct	Mar-25	100%
Car Body	24-Oct	Mar-25	50%

EXPENSES

List all expenditures from this award made since the last submitted semester project report. You can

Equipment & Construction Costs

Item	Cost Per Item	Quantity	Total
Universal Joint Assembly Standard Series, 3/4DI	\$40.93	4	\$163.72
OV AG P100 Professional Multi- Purpose Respirator	\$20.10	2	\$40.20
Multipurpose 6061 Aluminum 1/4" Thick, "8 x8"	\$21.43	2	\$42.86
Cut-to-Size Grommets 3BK Rubber, for 1/2" Hole and 1/4" Thickness, 1/64 5/16"ID	\$9.04	1	\$9.04

Aluminum Unthreaded Spacer 3/4" OD, 1/2" Long,	\$2.76	8	\$22.08
Tight-Tolerance Hardened 4140 Alloy Steel Bar 1/2"	\$150.22	1	\$150.22
Machine Key Stock 1008-1045 Steel, 305mm Long,	\$4.49	1	\$4.49
Low-Carbon Steel Round Tube 1/4" Wall Thickness,	\$52.04	1	\$52.04
Cut-to-Size Grommets SBR Rubber, for 1-1/2" Hole	\$6.72	1	\$6.72
Machine Key Stock 1008-1045 Steel, 305mm Long,	\$2.95	1	\$2.95
Ferrite Beads 47 OHM 25%	\$0.05	10	\$0.50
ARM Microcontrollers-MCU High-performance &	\$16.91	5	\$84.55
Differential Amplifiers High Common Mode Vlt g Diff	\$4.24	30	\$127.20
Power Inductors- SMD 15UH 2.1A 112 MOHM SMD	\$0.35	3	\$1.05
Power Inductors - SMD WE- PD 39uH 3A	\$1.77	3	\$5.31
Sensata Gigavac GV241FAB	\$125.97	1	\$125.97
CONN MICRO SD CARD R/A SMD	\$1.06	3	\$3.18
IC REG LIN 3.3V 800MA SOT- 223-3	\$0.91	3	\$2.73
CONN HEADER VERT 15 POS 2MM	\$0.83	3	\$2.49
CAP CER 10UF 16V X5R 0805	\$0.08	10	\$0.80
RES 1K OHM 1% 1/8W 0805	\$0.01	40	\$0.40
RES SMD 4.02K OHM 0.1% 1/8W 0804	\$0.07	40	\$2.80
CAP CER 4.7UF 35V X5R 0805	\$0.09	20	\$1.80
RES 10K OHM 1% 1/8W 0805	\$0.03	40	\$1.20
RES 40.2K OHM 1% 1/4W 0805	\$0.02	10	\$0.20
CAP CER 3.3 UF 50V X5R 0805	\$0.37	10	\$3.70
CAP CER 15 UF 35V X5R 0805	\$0.72	3	\$2.16
CAP CER 2.2 UF 16V X7R 0805	\$0.10	10	\$1.00
IC REG BUCK ADJ 2A 8SOPWR	\$2.87	5	\$14.35
CAP CER 0.1UF 50V X7R 0805	\$0.03	60	\$1.80
RES 287K OHM 1% 1/8W 0805	\$0.01	10	\$0.10
RES SMD 65.5KOHM 0.5% 1/10W 0603	\$0.05	10	\$0.50
SWITCH SLIDE SPDT 30MA 6V	\$0.95	3	\$2.85
1/2 in. x260 in. Thread Sealing PTFE Plumber's Tape	\$0.98	2	\$1.96
Pro High Back Race Seat Black	\$51.99	1	\$51.99
Super-Cushioning Polyurethane Foam, Adhesive-	\$26.86	1	\$26.86
RES SMD 66.5K OHM 1% 1/10W 0402	\$0.10	1	\$0.10
BRDIGE RECT 1P 100V 15A GBPC- W	\$6.85	1	\$6.85
60 Volt DC 10.0 Amp High Output Switch Mode	\$209.27	1	\$209.27
G-FORCE Latch and Link Individual Shoulder Harness	\$79.00	1	\$79.00
DISCOVERY STM32F469 EVAL BRD	\$62.50	1	\$62.50
Imperial Wetordry 3.7 in. x9 in. Ultra Fine 800-Grit	\$8.98	2	\$17.96
9in. x1 in. 1000 Grit Microfine Silicon Carbide	\$18.17	1	\$18.17
Anvil Plastic Puty Knife Set	\$3.98	3	\$11.94
DuPont, Tyvek® Coverall with Hood -Medium	\$11.45	5	\$57.25
DuPont, Tyvek® Coverall with Hood - Large	\$11.45	10	\$114.50
Uline Industrial Nitrile Gloves Powder-Free, 6M,	\$14.00	2	\$28.00
Uline Industrial Nitrile Gloves Powder-Free, 6M,	\$14.00	2	\$28.00
Uline N95 Standard Industrial Respirator	\$13.00	3	\$39.00
M3 6100 Half-Face Respirator - Small	\$21.00	1	\$21.00
M3 6200 Half-Face Respirator - Medium	\$21.00	4	\$84.00
High-Strength High-Temperature Silicone Strip	\$14.36	4	\$57.44

Flanged Knurled-Head Thumb Nut (Zinc-Plated	\$3.15	5	\$15.75
Black-Oxide Alloy Steel Hex Drive Flat Head Screw	\$10.91	1	\$10.91
Black-Oxide Alloy Steel Hex Drive Flat Head Screw	\$6.38	1	\$6.38
High-Speed Steel Drill-Point Countersink (for 4mm	\$21.24	1	\$21.24
Clear Scratch- and UV-Resistant Acrylic Sheet (24"	\$31.36	2	\$62.72
High-Strength High-Temperature Silicone Strip	\$14.36	4	\$57.44
Samsung 40T 21700 4000mAh)	\$4.75	60	\$285.00
IC BATT CHG LI-ION 1CELL 24VQFN	\$5.72	1	\$5.72
TERM REDCUBE M5 16PIN PCB	\$2.44	3	\$7.32
CAP ALUM 1000UF 20% 25V RADAIL	\$0.66	2	\$1.32
FIXED IND 10UH 3A 105 MOHM SMD	\$0.98	1	\$0.98
DIODE STANDARD 50V 1A DO204AC	\$0.11	1	\$0.11
DIODE ARR SCHOTT 30V 200MA SOT23	\$0.10	1	\$0.10
TERM REDCUBE M5 16PIN PCB	\$2.44	3	\$7.32
RES 2 OHM 1% 1W 1206 Wide	\$0.36	1	\$0.36
RES SMD 10 OHM 5% 1W 2010	\$0.48	1	\$0.48
RES SMD 0.01 OHM 1% 1/2W 2010	\$0.83	1	\$0.83
RES SMD 280K OHM 0.5% 1/6W 0603	\$0.10	6	\$0.60
MOSFET N-CH 20V 35A PPAK1212-8	\$1.23	2	\$2.46
CAP CER 0.022UF 16V X7R 0603	\$0.29	1	\$0.29
CAP CER 22PF 25V X7R 0603	\$0.24	1	\$0.24
Prestone DOT 3-Brake Fluid - 12 fl. oz. -Synthetic, High Grade, 50,000 Mile	\$4.98	6	\$29.88
Shipping and Fees	\$72.81	1	\$72.81
Equipment & Construction Costs Subtotal			\$2,387.01

Publicity & Communication	
Item	Total Spent
	\$0.00
	\$0.00
	\$0.00
	\$0.00
	\$0.00
	\$0.00
	\$0.00
	\$0.00

	\$0.00
	\$0.00
Publicity & Communication Subtotal:	\$0.00

Personnel & Wages	
Item	Total Spent
	\$0.00
	\$0.00
	\$0.00
	\$0.00
	\$0.00
	\$0.00
	\$0.00
	\$0.00
	\$0.00
	\$0.00
	\$0.00
Personnel & Wages Subtotal	\$0.00

General Supplies & Other	
Item	Total Spent
	\$0.00
	\$0.00
	\$0.00
	\$0.00
	\$0.00
	\$0.00
	\$0.00
	\$0.00
	\$0.00
	\$0.00
	\$0.00
	\$0.00
General Supplies & Other Subtotal	\$0.00

Illinois Facilities and Services (F&S) Division Budget Items	
Item	Total Spent
	\$0.00
	\$0.00
	\$0.00
	\$0.00
	\$0.00
	\$0.00
	\$0.00
	\$0.00
	\$0.00
	\$0.00
	\$0.00
	\$0.00
	\$0.00
Illinois Facilities and Services (F&S) Division Budget Subtotal	\$0.00
TOTAL EXPENSES FOR CURRENT PERIOD	\$2,387.01