

*Electric Formula SAE 2020-21*

Easton, Pennsylvania 18042-1775

# LAFAYETTE COLLEGE



## **Lafayette College 2020-2021 FSAE Formula One Hybrid Team**

### **TD021 Final Delivery Checklist**

<https://sites.lafayette.edu/motorsports/>

## Course Deliverables

Deliverable	Due Date	Delivery Date
TD001: Conceptual and Preliminary Design Study Submitted by: Thomas Stranick	9/21/2020	9/20/2020
TD002: Design Proposal Submitted by: Zach Pitner	10/19/2020	10/19/2020
TD003: Safety Plan and Review Accumulators: Accepted Lock-out Tag-out: Accepted DYNO: Accepted On road: Incomplete Submitted by: Devin Murphy	12/3/2020	5/19/21
TD004: Weekly Team Status Reports and Presentations	Weekly	Weekly
TD005: Five Minute Status Presentations Note: Presented by Mechanical Engineering students throughout the project.	9/21/2020, 10/19/2020, 11/16/2020, 2/22/2021, 3/22/2021 4/19/2021	9/21/2020, 10/19/2020, 11/16/2020, 2/22/2021, 3/22/2021 4/19/2021
TD006: Design Reviews	Throughout	Throughout
TD007: Mid-year Progress Report Submitted by: Andrew Bachman	12/3/2020	12/3/2020
TD008: Mid-year Presentation Note: Deliverable cancelled	N/A	N/A
TD009: Spring Update Report Submitted by: Andrew Bachman	4/12/2021	4/12/2021
TD010: Final Design Report Submitted by: Andrew Bachman	5/24/2021	5/24/2021
TD011: Final Presentation Submitted by: Andrew Bachman	5/19/2021	5/10/2021
TD012: Project Video Submitted by: Thomas Stranick	5/19/2021	5/18/2021
TD013: Posters and Poster Sessions Submitted by (Spring): Andrew Bachman Note: Posters were individually developed before 5/21 and presented on 5/25.	12/3/2020, 5/19/2021	12/3/2021, 5/21/2021

TD014: Subsystem Test Plans and Reports Note: Test Plans Not Conducted	As Required	Not Finalized
TD015: Top Level Laboratory Test Plan and Report Note: Not Accepted Submitted By: Thomas Stranick	12/3/2020	Not Finalized
TD016: On-Road Test Plan and Report Note: Not Created	12/3/2020	Not Finalized

Test Plan Compliance Percent reported according to following testing results:

1. [Side Panels Testing](#)
2. [Full Sloop Testing](#)
3. [EPAL Testing Memo 2](#)

With 49 total tests listed on the [draft test plan TD015](#), and 10 passed tests (1.1, 1.2, 1.5, 1.6, 1.8, 1.9, 1.10, 6.2, 6.11, 6.12) according to the three documents above, we have achieved 10/49 or 20% technical compliance. With no other testing documents to reference, we believe that further testing and acceptance documentation should be the first priority of the 2021-2022 team.

TD017: Project Website Submitted by: Thomas Stranick and Devin Murphy	5/19/2021	5/21/2021
TD018: Final Purchasing Report Submitted by: Zach Pitner Note: Acceptance was never recorded	5/19/2021	5/19/2021 (?)
TD019: User Manuals and Training Videos Note: Submitted by subsystems where necessary through the team website.	5/19/2021	5/19/2021
TD020: Maintenance Manuals Note: Submitted individually by subteams through the team website.	5/19/2021	5/19/2021
TD021: Final Delivery Checklist Submitted by: Andrew Bachman	5/24/2021	5/24/2021
ID001: Statement of Individual Goals Submitted by: Andrew Bachman	10/19/2020	10/19/2020
ID002: Weekly Individual Progress Report	Throughout	Throughout
ID003: Individual Memos, Quizzes, and Surveys	Throughout	Throughout

## Competition Deliverables

Reported according to competition results listed [here](#).

Design Event Deliverable Compliance: 48/200 Points (24%)

Project Management Deliverable Compliance: 51/150 Points (34%)

Total Competition Deliverable Compliance: 99/350 Points (28%)

Deliverable	Due Date	Delivery Date
Structural Equivalency Spreadsheet Submitted by: Jack Mueller Note: Not accepted, never revised.	10/14/2020	10/14/2020
Project Management Plan Submitted by: Thomas Stranick 45% of points earned (25/55)	11/30/2020	11/30/2020
Electrical System Form 1 (ESF-1) Note: Approved early for 20 bonus points	11/21/2020	10/21/2020
Program Information Sheet Submitted by: Andrew Bachman	12/7/2020	12/8/2020
Team Photo Submitted by: Andrew Bachman	12/7/2020	11/8/2020
Interim Project Report Submitted by: Andrew Bachman 45% of points earned (18/40)	2/15/2021	2/15/2021
Impact Attenuator Data Submitted by: Andrew Bachman	2/8/2021	3/19/2021
Site Pre-Registration Note: Document Submission Cancelled	2/15/2021	N/A
Electrical System Form 2 (ESF-2) Submitted by: Thomas Stranick	2/7/2021	4/4/2021
Design Report Submitted by: Zach Pitner 20% of points earned (6/30)	3/22/2021	3/26/2021
Sustainability Report Submitted by: Zach Pitner 0% of points earned	3/22/2021	Not Received
Design Specifications Sheet Submitted by: Zach Pitner 0% of points earned	3/22/2021	Not Received