Autonomous Electric Vehicle Bootcamp

June 12 to August 2 on the Purdue University campus in West Lafayette

Course Overview

The course will provide college students and recent grads with a practical introduction to the technologies in autonomous vehicles. The course is designed for engineering and technology students who are ready to expand their skills by designing, making, and testing a fully autonomous electric go-kart while applying the latest industry safety standards. The bootcamp will provide a look into how to manage a real-world working environment, including project management, team interactions, project reporting, and dealing with change. Students who complete this course will be ready to enter the emerging autonomous vehicle industry.

Save 25% with our university discount!

Course Highlights

- Embedded Systems
- Functional Safety – ISO 26262 Standard Overview
- Controls Strategy Development using MATLAB/Simulink
- CAN Communications (J1939)
- ISO 26262 Tool classification and Qualification
- MES Embedded Coder Tool
- Moto-Tune Calibration Display Tool

Course Timeline

Week 1	Autonomous Vehicle Technology Overview, intro to electric motors, and Basics of Simulink
Week 2	Construct, analyze, and decode CAN Messages
Week 3	Functional Safety Overview Course
Week 4	Throttle Project using the MES Tool, Embedded Coder, along with the functional safety compliance tool, Moto-Tune
Weeks 5-7	Use the Embedded Coder to develop the autonomous features of the Go-Kart
Week 8	Demonstrate autonomous features of the Go-Kart and lessons learned at a demonstration day

*To learn more: **lhpu.com/kart***

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An 8-Week Course

Autonomous Electric Vehicle Bootcamp

May 1 to June 21 in Columbus, Indiana

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Deferred tuition available!

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