

E4 Harbin Institute of Technology at Weihai

Keep Racing !

Harbin Institute of Technology Racing Team (HRT)



今回の総合結果・部門賞

●総合60位 ●ルーキー賞 (EVクラス)

Profile チーム紹介・今までの活動

Founded in 2009, HRT is the one which is established for participating in Formula SAE Competition. Since its inception, the team has already designed and manufactured seven cars. Over the past four years, HRT has been kept moving forward.

Team-member チームメンバー

Zhao Jinghui, Wang Jianfeng, Li Jiaming, Li Kun, Gong Weixi, He Zhongqing, Wang Yongtai, Zhao Wentao, Zhang Qi, Duan Wenjie, Zhao Pengcheng, Zhou Tianpeng, Jiang Lang, Wang Sirui, Zhang Huaqi, Jiao Yifan, Liang Yuhan, Wang Tianyang, Wang Lei, Yang Yaran, Peng Peng, Cui Guanfeng, Hu Tao, Yang Wenfei

Sponsors スポンサーリスト

Sensata Technologies Changzhou, ANSYS, Cusco, FESTO, Wanfeng, Guangwei, IMK, igus, Magnet Marelli, Metastar, Ronghe International Circuit, ISR, Henkel, YATO TOOLS, LOCTITE, Textrem, MSC, Devices Craig, Calspan, TIRF

Presentation プレゼンテーション

マシン名: **HRT_14E**

Harbin Institute of Technology Racing Team (HRT), founded in 2009, is the one which Harbin Institute of Technology at Weihai established for participating in Formula SAE Competition. As one of the earlier-founded formula racing teams, HRT now owned over 130 students of vehicles, materials, machinery, finance and other related majors. Since its inception, the team has already designed and manufactured two electric cars for FSAE. Over the past four years, HRT has been kept moving forward.

We set the design objective as reliable, high-performance, light-weight and safety. Based on the analysis and simulation, the power of battery is 5.4kwh, which is 20% less than last year. The self-designed and manufactured vehicle controller can analyze signals gathered from sensors, and then output commands, which improves the operational stability. The insulation monitoring system can cut off the power output in case of emergency, which ensures the driver's safety. The continuous power of the motor is 52kw and the weight of the motor is 38.5kg, and the power-to-weight ratio attains a striking 1.35kw per kilogram. The stable brake system with little mass can provide enough brake force to lock all 4 wheels at the same time rapidly.

Participation report 参戦レポート

It's the first time that Harbin Institute of Technology Racing Team (HRT) take part in the electric part of the FSAE Japan. What a great pity! We cannot complete the dynamic events because of some problems, although we do well in static events. This result cannot make us happy because all our members spend one year designing and manufacturing HRT_14E and we expect a lot on it. However, we will take this result as encouragement to make our team better and keep racing! What's more, we have an extremely great time in Japan and make many friends here. We want to come here if it is possible!