



Welcome to the 2019 Huddersfield Railway Challenge Team (HUDRAIL)

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## New Merchandise

With the revitalisation of the HudRail brand, the team was happy to receive new HudRail polo shirts. Each member has received a personalised polo shirt which they will wear during any IMechE Railway Challenge event. The team has also received a batch of HudRail branded high-vis vests to help stand out from other teams on test days and at the competition. If you see one of our team members in their new polo shirt or high-vis and have any questions concerning the Railway Challenge, please do not hesitate to ask.



## Stapleford Miniature Railway Trip

On the 6th of February HudRail along with other Railway Challenge teams from around the country, were invited to Stapleford Miniature Railway to have a briefing on the Railway Challenge competition and to view the grounds.

The team was given the opportunity to meet some of the leading personnel of the IMechE Railway Challenge committee. Each member of the committee gave a presentation on their respective roles at the competition and then gave advice on all of the challenges and safety. The committee clearly emphasised that maintainability and reliability would be scrutinised strictly this year. This reinforces the entry standard for the HudRail locomotive.

After the conclusions of the presentations and questions, the team was given the opportunity to ride the Stapleford locomotive to different locations of the track. Each location was the site of a different challenge. We would like to thank the multiple volunteers of the Stapleford Miniature Railway for making the day and the competition possible. If anyone is interested on volunteering and gaining some practical experience in the rail industry, please contact them for further details.

## Stewart Automation Services

The team has decided to improve certain aspects of the PLC system, which was used in previous years. A programmable logic controller (PLC) is how the HudRail locomotive is automated and controlled by the team. For the PLC to work the team must code and wire the electrical system correctly. To better understand RS Logix, which is the means of coding the PLC, the team has sought the help of an external advisor. Rob Stewart of Stewart Automation Services has agreed to hold weekly skype meetings with the team, to help tutor and explain any problems HudRail may encounter. Outside of the weekly skype meetings, he has also agreed to respond to any questions the team may enquire about. HudRail would like to thank Rob for his ongoing technical support.

## Sponsorship



The team is happy to announce their new sponsorship deal with the 3M Buckley Innovation Centre. The team has requested a visualisation which will showcase the existing energy recovery system (ERS) and the new testing rigs which are currently in development. The HudRail team hopes this will give people a more technical insight into how the locomotive functions.