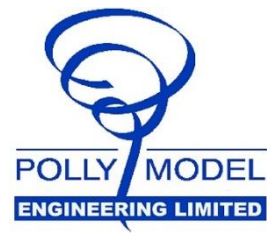




## **FEDERATION TROPHY & POLLY MODEL ENGINEERING PRIZE**



### **2025 AWARD WINNERS**

**The awards were made at the FMES AGM Event Day  
held at the Whitewebbs Transport Museum on 1st  
March 2025**

**Here are the three award winners.....**

## Archie Paul

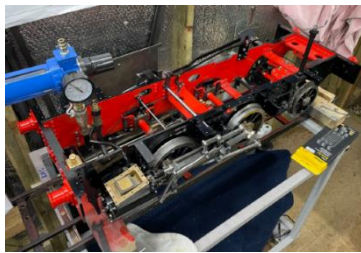
Archie is 16 years old and has been actively modelling since he was 13 with the support and assistance of his father and members of his club. He is a member of Pinewood Miniature Railway Society and enjoys supporting them in their club activities including many technical and maintenance tasks as well as supporting the club with their public running operations. These include signal box operation, preparation and disposition of rolling stock and locomotives and other duties under supervision where appropriate.



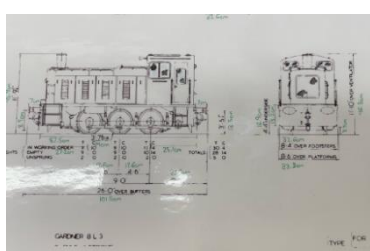
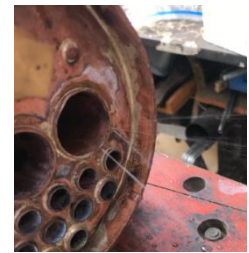
He started by building an 0-6-0 electric locomotive assisted by his father particularly for the wooden body. He then developed this loco by making a new and improved body for it, resulting in a much detailed and representative model of a class 14 'Teddy Bear' (using some 'rapid prototyping' for details) that he ran at the Echills Wood rally.



He then acquired a 'poorly' 7.25" gauge Bridget steam engine, unfortunately with a failed hydraulic test. Archie mended this



using 'pro fuel' as a heat source and the loco then happily passed its tests. Unfortunately, this then brought other defects to light and he rebuilt a lot of the key running parts of the chassis including piston rings, valve stem guides (using titanium as a material).



As well as rebuilding a small lathe and some other projects, he has now started work on a Class 03 that has advanced as far as the chassis that we had the pleasure of seeing at the awards event. Archie's skills have now developed to the point where the class 03 is all his own work,



including the design of the loco and its parts. Archie has embraced the use of modern manufacturing methods and some ready-made components in his projects, as well as an excellent grounding in traditional manual skills.



We look forward to seeing Archie's development and more projects in time.

Archie was awarded the FMES trophy, £100 Polly Model Engineering Limited voucher and £100 FMES cash prize.



## Spencer Priddy

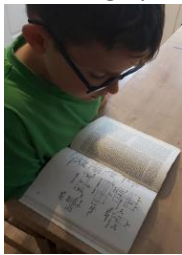
Spencer has featured in this competition before, being a winner in 2023. It is pleasing that he continues to develop his skills and interest in Model Engineering as evidenced by his competition entry. Spencer is now 13 years of age and is a member of Portsmouth Model Engineering Society. He continues to support the club activities on all occasions including social events, track and other maintenance



and public running. He is developing his skills all around club activities and is mentored to learn driving and management of steam engines, with a careful and safety conscious approach.



As we have seen in previous years, he has developed his skills by building successful electrically powered locomotives (including up to 5" gauge). Bitten by the 'locomotive bug', Spencer now



wishes to develop his abilities with the construction of steam engines, with his ambition being to build a substantial larger scale steam locomotive. Recognising, however, that skills need time to develop, he has decided to embark on a somewhat less ambitious project, but still requiring the necessary degrees of precision and knowledge that a larger project would require.



Spencer researched around the topic and decided to pursue a small oscillating engine featured on You Tube and originally described by Tubal Cain. This was of interest as it could be made using only a pillar drill as a machine tool. He acquired some useful and informative books on the subject and decided on a design called 'Elizabeth' in one of the books. It was necessary for Spencer to design all of the parts and contemplate how he would manufacture them.



The portfolio that Spencer made for his entry to the competition was very detailed with lots of photographs demonstrating progress with this project (too many to reproduce in full here) but a representative selection is included. The skills demonstrated included hand tool use including cutting, filing, soldering, drilling and fitting parts together to make them work.



Spencer's engine was tested successfully using compressed air, and he has plans to make some more of this type for other projects.

A second project that Spencer has worked on is a slight step away from steam engines and locomotives – but nonetheless 'model engineering' – the build of a radio controlled 'Tamiya' car from a kit of parts. Whilst Spencer has not had to machine anything for this, it has engineering complexity that is invaluable for learning as his photos demonstrate. We look forward to seeing Spencer's development and work on his next projects.

Spencer was Highly Commended for his continuing development and club support and was awarded an FMES certificate, £70 Polly Model Engineering Voucher and £70 FMES cash prize.



## Oakley Webb

Oakley is 13 years old and has been an active member of Pimlico Light Railway since 2021. He joins in many club activities, especially maintenance and updating facilities. He participates in the club's



training programme, with his abilities now extending to safety awareness, maintenance of stock, track and facilities, as well as managing steam engines.

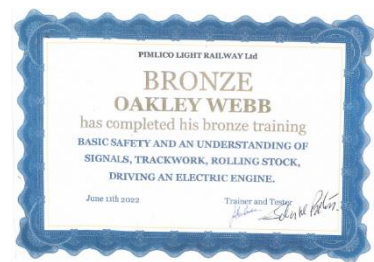
Although young, he has learned to drive engines and to quote his mentor at the club he displays a maturity beyond his years regarding supporting club activities, health and safety and essential maintenance and engine testing.

He has learned important basic engineering skills at the club by building at stationary steam engine. This involved hand and lathe work, learning and carrying out silver soldering and, of necessity, learning imperial measurements to complement his knowledge of metric. This has involved machining, drilling and



sheet work, as well as reaming, threading and the use of D bits.

He is an active hobbyist at home as well, making progress with his 00 gauge railway, as well as some other less model engineering but nonetheless practical projects at home that he completed during lock down.



We look forward to seeing Oakley's progress both at club and with his skills in the future!

Oakley was Commended for his club activities and progress learning model engineering skills and was awarded an FMES certificate, £50 Polly Model Engineering Voucher and £50 FMES cash prize.

