

#MeetOurSTEMAmbassadors

We have so many amazing volunteers and we'd like you meet them!



About me		
Name:	Steve Markham	Photo: 
Location:	Newcastle Upon Tyne	
Job/course title:	Director/Contract Quality Engineer	
Organisation:	STM Quality Limited	
Fun fact about me:	I love to play drums and keyboards – much to the delight of my neighbours.	
Education/career journey:		
<p>I attended George Salter High School, West Bromwich. I loved Engineering, English and Science, but went along with everything else. Seeing the moon landings as a small boy was the most fascinating thing I'd ever seen and as my Dad told me – getting them there was the easy part – getting them back to earth was probably more difficult. My Dad was a press toolmaker – taking sheets of metal and making the tools that could form them into such things as wheelbarrows, kitchen sinks and car doors – so he was my biggest inspiration as to why I became an Engineer.</p>		
Your current job:		
<p>I've had my own business for over 14 years now. I'm a Quality Engineer and I help many other businesses develop new products and make improvements to their existing products and manufacturing processes. I also help in developing systems so that everyone has processes that they can follow that will ultimately lead to better and better quality. I mainly work in the automotive industry so I get to see many new cars long before they are launched to the public.</p>		



Nice to get to know you!

STEM Ambassador role:

I became a STEM Ambassador in April 2018 and I've participated in many events – career speed networking, CV building, mock interviews and I've also delivered some practical activities such as welding with chocolate. I enjoy talking with lots of young people and helping to inspire them to consider taking a career in STEM. Being passionate about what I do and having the enthusiasm hopefully shows them that STEM subjects and careers are really exciting. View my [short video](#) about being a STEM Ambassador.

Student challenge:

Most Engineers spend much of their working life solving problems. So here is a typical problem.

I want you to think about not only how to solve the problem, but how to stop it ever happening again. This is just for you to think about.

So here are the facts – this is what you know so far:

- You work at a company that makes a switch for a car.
- Your company makes thousands of switches every week and delivers the switches to the car assembly factory in boxes of 500.
- The car assembly factory has found a problem with one switch – it doesn't work.
- It has come from the latest box of 500. They have no more switches there.
- They have asked you to check all switches in the box at their factory.
- You have checked them - all of the other switches work.
- So, there is only one switch that doesn't work, *but why?*

Your ideas are now needed – so what could you do?

- Your factory is currently making switches – can you be certain that they are all working?
- How would you test them?
- Are there any instruction for the workers who build them?
- Are all workers following the instructions?
- Could the switches get damaged in any way?
- How could you be certain that all switches are working perfectly when they leave our factory?
- How can you stop this problem from ever happening again?



Nice to get to know you!