Electronics Engineering with Professor Peter Gammon

Peter is an electronics engineer and senior research fellow at the University of Warwick in the UK.

BREAK THE PODCAST DOWN:

Up to 03.00 minutes:

1. What is power electronics?

2. What type of research is Peter involved in?

3. In what way do power electronics play an important role in society moving to sustainable energy?

03.00 – 05.00:

4. What do you think are the benefits of doing an apprenticeship? Would you prefer to study A-levels or take on an apprenticeship? Why?

5. What do you think are the advantages of following the 'halfway house' path?

05.00 – 06.45:

6. Have there been times in your own education when you have 'changed paths'? Why, and how did you find this experience?

7. What is the appeal of following an academic route at university? Which elements of the university experience appeal to you?

8. Which English skills do you think are needed to write reports? What experience of reading and writing reports have you had? How could you develop these skills?

9. How confident are you in physics, chemistry and maths? Where do your strengths lie in these subjects? Which skills do you need to focus on for these subjects? Who could you talk to for support or guidance in this area?

10. Regardless of career paths or long-term goals, what do you enjoy doing and learning about?

06.45 – 09.00:

11. To what extent do you agree with Peter about how and where we learn to 'work'? What do you feel you need to learn that academia cannot teach you? What experiences do you think you need to be a successful, focused individual?

12. Which of these examples - making semi-conductors, writing programs and designing car power systems - appeals to you the most and why? What do you already know about these areas? For example, what have your learnt about semi-conductors?

13. Why do you think Peter describes diversity in engineering as essential? Why do you think the field needs and is all the better for a diverse range of engineers working in it?

09.00 to end:

14. Have you played with a Raspberry PI? If so, what did you do? If not, which teacher could you talk to about how to access one?