Elective Robotics information sheet

Why Robotics?

Robotics is an interdisciplinary field a mixture of computer science and engineering. The aim of robotics is to design machines which can assist humans.

Wouldn't it be great if you could make something to make your own life easier? Something which can cut the grass or cook your dinner for you? That's robotics!

What will we be doing?

We will complete one project per semester.

Depending on experience and age we will look at Lego Mindstorms, Lego Spike, Arduino projects and eventually adapting things (hacking them) to make them more useful for us.

Robotics will look at both hardware and software.

Hardware

- Soldering
- Building
- Physical requirements such as hard drive or battery power

Software

- Coding the robot
- Basic decision-making code
- Different coding languages

Other

- Ethical implications
- Current businesses which use robots (for example Moley)

"The spread of computers and the internet will put jobs in two categories: People who tell computers what to do, and people who are told by computers what to do."
Marc Andreessen World Wide Web Hall of Fame inductee 1994

Which category would you rather be in?

Jon Bird