

### WHAT ARE PRINTED CIRCUIT BOARDS? DESIGNING A CIRCUIT.

TO ANSWER ALL THE QUESTIONS YOU WILL NEED TO DOWNLOAD THE 'PCBs AND SOLDERING' APP, FROM THE INTERACTIVE MOBILE APP SECTION OF [www.technologystudent.com](http://www.technologystudent.com)

**LINK**

<http://www.technologystudent.com/mobapps/PCB1.pdf>

Once you have downloaded the App, you can use it to navigate the website. You may need to follow the links on each page of the App, to research / complete answers to all the questions.

**ARE YOU READY?  
USE THE MOBILE App!!**

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### WHAT IS A PRINTED CIRCUIT BOARD (PCB)?

Include both notes and a sketch(s)

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### DESCRIBE THE USE OF SOFTWARE, IN CIRCUIT DESIGN AND TESTING.

Name the software you have used or know about.

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### WHAT ARE BREADBOARDS?

Include an image of a circuit, arranged on a breadboard, for testing. You may need to search the internet for a suitable image.

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### IMAGE OF BREADBOARD AND CIRCUIT.



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## MANUFACTURING PRINTED CIRCUIT BOARDS



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**USING NOTES AND SKETCHES, DESCRIBE THE STAGES INVOLVED, IN THE MANUFACTURE OF A PCB (Printed Circuit Board), IN A SCHOOL / COLLEGE.**

Please note - the process of manufacturing PCBs in a schools and colleges varies. Describe the process you have used.

HELPFUL LINK: <http://www.technologystudent.com/mobapps/PCB1.pdf>

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## ADDING COMPONENTS AND SOLDERING

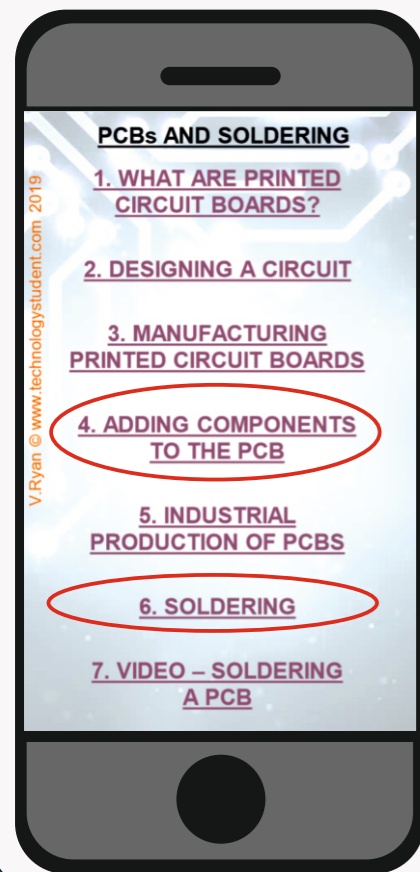
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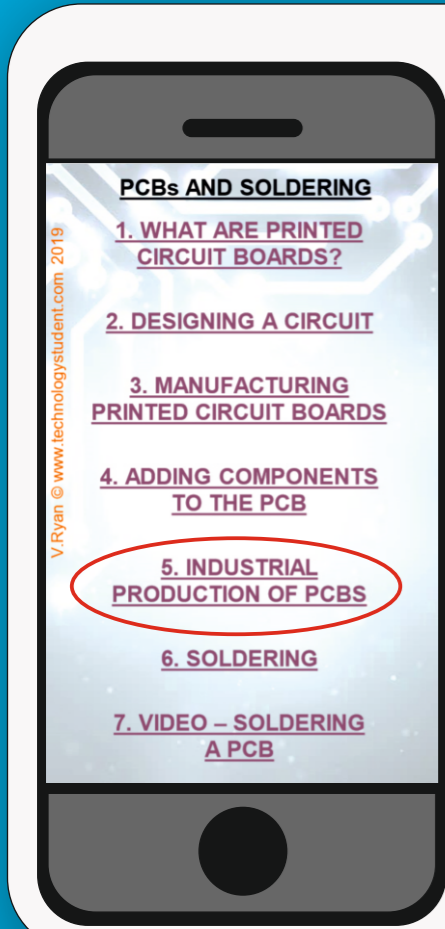
**ARE YOU READY?  
USE THE MOBILE App!!**



USING NOTES AND SKETCHES, DESCRIBE THE PROCESS OF ADDING COMPONENTS TO A PCB AND SOLDERING.

Include cleaning the copper tracks to soldering the components in position.

HELPFUL LINK: <http://www.technologystudent.com/mobapps/PCB1.pdf>



**INDUSTRIAL PRODUCTION OF PCBs.**

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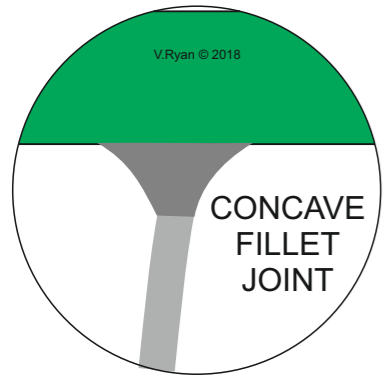
**ARE YOU READY?  
USE THE MOBILE App!!**

**1**

WITH THE AID OF NOTES AND A SKETCH(S), DESCRIBE INDUSTRIAL WAVE SOLDERING.

**2**

WHEN SOLDERING, WHY IS A CONCAVE FILLET JOINT, THE PREFERRED OUTCOME?




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**3**

WHAT ARE THE ADVANTAGES OF MANUFACTURING A PCB, USING A CNC MACHINE?  
(SUCH AS USING THE SYSTEM SHOWN OPPOSITE)

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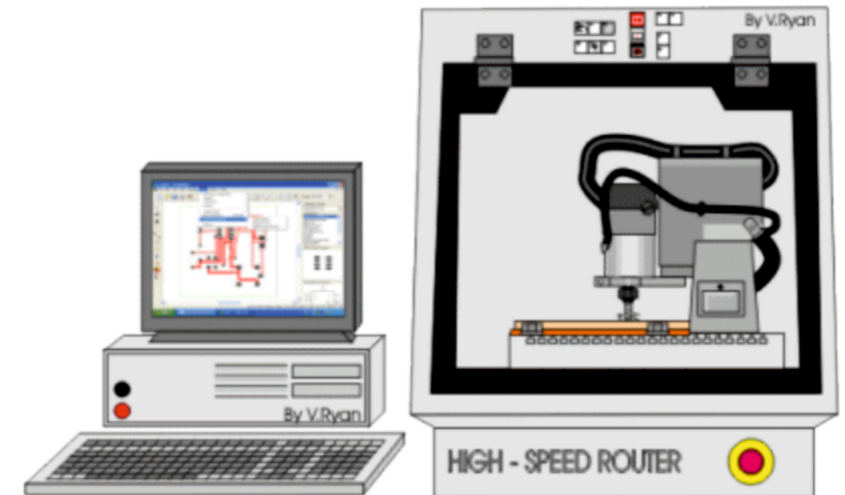
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CNC MACHINE MANUFACTURING A PCB.



HELPFUL LINK: <http://www.technologystudent.com/mobapps/PCB1.pdf>