PROJECT SYNOPSIS

1)	Project reference Number	46S_BE_2576
1)	Title of the project	DESIGN AND FABRICATION OF AUTOMATIC SOLDERING MACHINE
2)	Name of the college	Bangalore Institute of Technology, Bangalore
	and Department	Department of Mechanical Engineering
3)	Name of the Guide	Mr. SOMASHEKAR.C
4)	Name of the students	UDAY SHANKAR S
		ABDULLA KHAN
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		PARAMESHWAR
5)	Keywords	Automation, Soldering, CNC
6)	Introduction	Soldering is a process in which two or more items are joined by melting
		and putting a filler metal (solder) into the joint, the filler metal having a
		lower melting point than the adjoining metal. Unlike welding, soldering
		does not involve melting the work pieces. In brazing, the work piece metal
		also does not melt, but the filler metal is one that melts at a higher
		temperature than in soldering. In the past, nearly all solders contained lead,
		but environmental and health concerns have increasingly dictated use of
		lead-free alloys for electronics and plumbing purposes.
7)	Objectives	• To design automated soldering machine.
		• To fabricate automated soldering machine.
		• To make production system particularly cost-effective
		• To improve speed and efficiency
8)	Methodology	Arduino is a device that is used to build electronic projects. It consists of a
		pre-programmed microcontroller or integrated KSCST: Student Project
		Programme: 46th series: 2022-2023 3 development environment, used to
		write the code and upload it to the physical board. These devices are used to
		make communicating objects, taking i/p from different kinds of sensors and
		controlling the motors, lights, and various physical o/p's. The Arduino
		doesn't require a separate programmer in order to dump the new code on the
		board but, we can directly use a USB cable. A drawing of the model has
		been attached to this form



