VISVESVARAYA TECHNOLOGICAL UNIVERSITY
"JNANA SANGAMA", BELGAVI-590018 KARNATAKA

Mini Project Report (18ECMP68)

ON

"AUTOMATIC WATER TAP CONTROL SYSTEM"

Submitted in partial fulfillment of the requirement for the award of degree

BACHELOR OF ENGINEERING

IN

ELECTRONICS & COMMUNICATION ENGINEERING

Submitted by:

BHOOMIKA.D (USN: 1SV19EC006)

CHANDAN.M U (USN: 1SV19EC007)

Under the Guidance of:

Dr. UMESHA.G B.

Associate Professor, Dept of ECE.,SIET

Tumkuru

SHRIDEVI EDUCATION

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

SHRIDEVI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Recognized by govt. of Karnataka, Affiliated to VTU, Belagavi and approved by AICTE,New Delhi)

Sira Road, Tumkur-572106

2021– 2022

HOD
Dept of E&C
SIET, Tumkur-6

PRINCIPAL
SIET., TUMAKURU.

SHRIDEVI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Recognized by govt. of Karnataka, Affiliated to VTU, Belagavi and approved by AICTE, New Delhi)
Sira Road, Tumkur-572106, Karnataka
2021-2022

SHRIDEVI
EDUCATION

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

Certificate

This is to Certified that the mini project work (18ECMP68) entitled "**AUTOMATIC WATER TAP CONTROL SYSTEM**" has been Successfully carried out by **BHOOMIKA.D (1SV19EC006),CHANDAN.M U(1SV19EC007),** a bonafide students of **Shridevi Institute of Engineering and Technology, Tumkur- 572106,** in partial fulfillment for the award of **Bachelor Of Engineering in Electronics & Communication Engineering** of the **Vishvesvarayya Technological University, Jnana Sangama, Belagavi -590018,** during the academic year 2021–2022. It is certified that all corrections/suggestions indicated for internal assessments have been incorporated in the report. The mini project report has been approved as it satisfies the academic requirement with respect to the mini project work prescribed for the said Bachelor of Engineering degree.

Dr. Umesha G B 27/1/22 Signature of the guide	27/1/2022 Signature of the HOD	Signature of the principal
Dr.Umesha .G B **Associate professor** **Dept. of ECE., SIET** **Tumakuru**	**Prof. Aijaz Ahamed Sharief** **HOD** **Dept. of ECE., SIET** **Tumakuru**	**Dr. Narendra Viswanath** **Principal** **SIET, Tumakuru**

EXTERNAL VIVA

Name of examiners:

1. Raghavendra D
2. 28/1/2022

Signature with date:

28/01/2022

PRINCIPAL
SIET., TUMAKURU

ABSRACT

This research is a design and implementation of an automatic sensor water tap for hand washing. The work aimed to switch ON and OFF a water tap automatically without the need of turning it manually. It employs a Infrared (IR) Sensor which has a maximum sensitivity of about 3m. The sensor detects the presence of a user within its viewing range and responds by giving a high at its output. The automatic sensor water tap incorporates a microcontroller (PIC16F628A) which was programmed using the 'C' programming language and turns ON the tap automatically whenever the sensor senses the user's hand, and turns OFF when the hand is withdrawn.

HOD
Dept of E&C
SIET, Tumkur-6

:::

PRINCIPAL
SIET., TUMAKURU.