"LOW COST PORTABLE MUSICAL FOUNTAIN"

A project report submitted in partial fulfillment of the requirements for the award of the degree of Bachelor of Engineering in Electronics & Communication Engineering of Visvesvaraya Technological University, Belgaum

SUBMITTED BY

MR.PRASHANT CHITTI	**2MM09EC021**
MS.PRIYANKA HOMKAR	**2MM09EC023**
MR. RAMADAS KUMBHAR	**2MM09EC026**
MR.RIGVEDA DESHPANDE	**2MM09EC027**

Under The Guidance Of

Prof. B.B.TIGADI

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

MARATHA MANDAL'S ENGINEERING COLLEGE

R. S. NO. 104, HALBHAVI, POST: NEW VANTAMURI,

BELGAUM – 591 113.

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM

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ABSTRACT

A musical fountain is a type of animated fountain for entertainment purposes that creates an aesthetic design and sometimes a three dimension image. This is done by using the effects of timed sound wave and timed light or laser against water particles. The water refracts and reflects the light, and in doing so, a three-dimensional image cam be created. Some are large scale, and use hundreds of water jets and laser emitters, the cost of which runs up into the millions of dollars, although smaller household forms exist where the budget ranges to around a thousand dollars.

Spectators greatly appreciate majestic musical fountains such as the Bellagio music fountain in Las Vegas and the Magic Fountain of Montjuic in Barcelona. A plethora of water jets and colored lights gives these fountains a gorgeous appearance. But what further distinguishes them is that their displays are synchronized with accompanying music. Fountains that just make patterns with water jets have now developed into multimedia shows with music, light, and special effects. A musical fountain with synchronized water and music creates an atmosphere that can be exciting or romantic. The fountains in Las Vegas and Barcelona are huge, but smaller musical fountains are now appearing in many urban spaces. Whatever the fountain size, the choreography requires painstaking, expert programming, and their creators can only achieve this after careful analysis of the music. Skilled musical-fountain programmers can spend days or even weeks creating a new performance, but this is expensive. So, they rarely change the routines, and they repeat a limited program every day. For this reason, programmers usually choreograph the routines to classical music or well-known pop songs rather than very new music.