

## Digital Jewellery

\* Kohima



### Introduction:

The latest computer craze has been to be able to wear wireless computers. The Computer Fashion Wave, "Digital Jewelry" looks to be the next sizzling fashion trend of the technological wave. The combination of shrinking computer devices and increasing computer power has allowed several companies to begin producing fashion jewelry with embedded intelligence. Today's, manufacturers place millions of transistors on a microchip, which can be used to make small devices that store tons of digital data.. The whole concept behind this is to be able to communicate to others by means of wireless appliances. The other key factor of this concept market is to stay fashionable at the same time. By the end of the decade, we could be wearing our computers instead of sitting in front of them.

### Digital Jewellery:

Digital jewelry is the fashion jewelry with embedded intelligence. "Digital jewelry" can help you solve problems like forgotten passwords and security badges. "Digital jewelry" is a nascent catchphrase for wearable ID devices that contain personal information like passwords, identification, and account information. They have the potential to be all-in-one replacements for your driver's license, business cards, credit cards, health insurance card, corporate security badge, and loose cash. They can also solve a common dilemma of today's wired world the forgotten password.

### Digital Jewellery And Its Components:

Soon, cell phones will take a totally new form broken up into their basic components and packaged as various pieces of digital jewelry. Each piece of jewelry will contain a fraction of the components found in a conventional mobile phone. Together, the digital-jewelry cell phone should work just like a conventional cell phone. The various components inside a cell phone:

- \* Microphone\* Receiver\* Touchpad\* Display
- \* Circuit board \* Antenna \* Battery

Now Parts of Digital Jewelry will perform the function of all these above parts together wirelessly in a unique paper.

### The pieces of computerized-jewelry phone and their functions:

- \* Earrings - Speakers embedded into these earrings will be the phone's receiver.

- \* Necklace - Users will talk into the necklace's embedded microphone.

- \* Ring - Perhaps the most interesting piece of the phone, this "magic decoder ring is equipped with light-emitting diodes (LEDs) that flash to indicate an incoming call. It can also be programmed to flash different colors to identify a particular caller or indicate the importance of a call. The same ring that flashes for phone calls could also inform you that e-mail is piling up in your inbox. This flashing alert could also indicate the urgency of the e-mail.

- \* Bracelet - Equipped with a video graphics array (VGA) display, this wrist display could also be used as a caller identifier that flashes the name and phone number of the caller. With a jewelry phone, the keypad and dialing function could be integrated into the bracelet, or else dumped altogether -- it's likely that voice-recognition software will be used to make calls, a capability that is already commonplace in many of today's cell phones. Simply say the name of the person you want to call and the phone will dial that person. IBM is also working on a miniature rechargeable battery to Power these documents. Charmed Technology is already marketing its digital jewelry, including a futuristic-looking eyepiece display. The eyepiece is the display component of the company's Charmed Communicator, a wearable, wireless, broadband-Internet device that can be controlled by voice, pen or handheld keypad. The Communicator can be used as an MP3 player, video player and cell phone. The Communicator runs on the company's Linux-based Nanix operating system.

### Technical specifications of Digital jewelry:

Digital jewelry devices consist of a screen or display for information, most likely consisting of 7-16-segment, or dot matrix LEDs, LCDs, or other technologies such as electroluminescent material (EL) or others, which could become an optional display. So too, an audiovisual or other 'display' could consist of a speaker, a single flashing light, a sensor of some kind (such as a temperature driven EL display), or other informational aesthetic. The display layer sits on a face of the device, which is enclosed in some material such as plastic, metal, crystal, or other material. It has external switches and buttons on its side and a data-port for accessing the programmable electronic circuit inside. A micro controller that is a surface mounted device

(SMD) on a printed circuit board (PCB) with resistors (R) and capacitors (C) are the internal 'guts' of the jewelry. Digital Jewelry can be made in many different sizes and shapes with a variety of materials ranging from plastic and metal to rubber and glass. They utilize electromagnetic properties and electronics to display information through a screen or display of some kind. This could range from LED 7-segment, 16-segment, dot matrix, and other programmable LEDs devices to LCDs, OLEDs, and other display devices.

The closest comparison to this model is that of 'beads' which are strung together to make a custom necklace or bracelet, with interchangeable electromagnetic component systems or devices. One bead may be a capacitor on the inside, and a solar panel on the outside. Another bead may have an internal resistor which feed power into a programmed micro controller bead which drives an external screen, with other options available in a variety of bead configurations which compose a circuit, including beads with a piezo element, voltage regulator, crystal, or rechargeable bat-

*\* Research Scholar, Singhania University, Rajasthan*

tery as part of the modular jewel circuit. The number of data pins on the micro controller needs to be enough to easily program the display layer plus the switches without overly complex and advanced coding methods.

**Conclusion:**

The basic idea behind the digital jewelry concept is to have the convenience of wireless; wearable computers while remaining fashionably sound. It is hoped to be marketable soon, however, several bugs remain. Charging capabilities and cost are just a sample of the problems that lurk.

**Suggestions:**

limited aesthetics and functionalities. In this context the central thesis that developed was that My approach was to redress a climate of mass produced gadgets and digital objects that carry with that expectations and assumptions of objects with little emotional meaning, short life spans, transferrable significance and limited aesthetics and functionalities. In this context digital jewelry can be considered a new category of object, sometimes that is becoming.

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