

***AUTOMATIC
TIME AND ASSET
MANAGEMENT SYSTEM***



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ATTENTION

... All personnel and inventory control managers, business owners and individuals responsible for collecting data and tracking "stuff," who:

1. Love the Macintosh;
2. Have more things to track than time to track them; and
3. Think that bar codes are really neat but haven't a clue how to deal with them.

Introducing the Automatic Time and Asset Management System (ATAMS) — the light weight, portable, pocket size, electronic assistant!





If you can bar code it, you can track it with the ATAMS.

Track:

- Employee Time (Payroll Time, Eliminate Time Clocks)
- Task (Job) Time (for all employees on every job)
- Parts Inventory Control (dynamically tracking parts moving into and out of inventory)
- Fixed Assets
- Vehicle Mileage (trucks, cars, airplanes, helicopters, etc.)
- Fax Machine and Copier Usage (identify which device is used)
- Security Check Points
- Library Books
- Telephone Calls
- Maintenance Scheduling

Perform:

- Time and Motion Studies
- Performance Evaluations
- Performance Based Benefit Analysis
- Inventory Management Studies

You are only limited by your imagination.

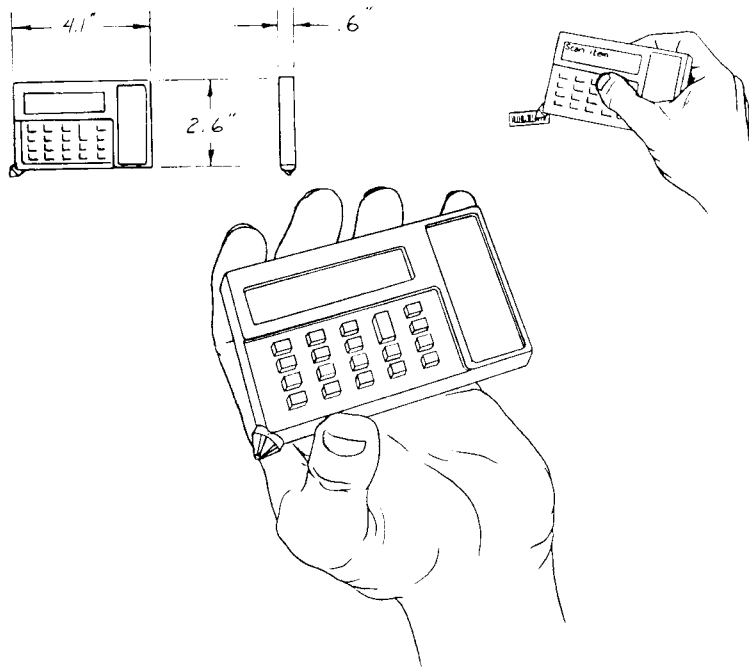
The ATAMS can do the work of several people by automatically logging data (events) at the time that the events occur.

Track Stuff

Perform Studies

Improve Efficiency

MEET THE AUTOMATIC TIME AND ASSET MANAGEMENT SCANNER



The Scanner

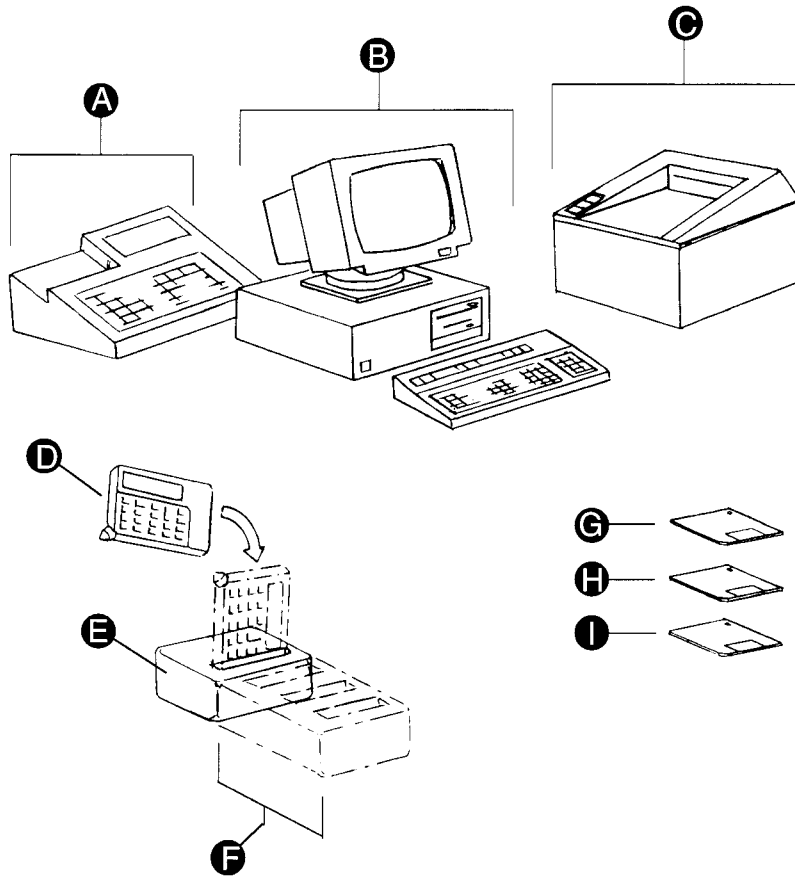
The scanner is available with a belt clip.

Specifications

Physical	Rugged, cast metal case
Dimensions	4.1" x 2.6" x 0.6"
Weight	4.9 ounces
Storage Temp.	-4° to 122° F (-20° to 50° C)
Operating Temp.	32° to 122° F (0° to 50° C)
Humidity	0 to 95% noncondensing
Audio	14 tone patterns including good read and key entry
Visual	2-line x 16-character LCD
Bar Code Symbolgies	Code 3 of 9, Interleaved 2 of 5, Codabar, UPC-A&E, and EAN; Code 128 and Code 93 optional
Scanning Speed Tolerance	3 to 30 inches per second
Scan Capacity	32K:750, 64K:2000, 128K: 7000, 320K:20,000
Resolution	Minimum 0.0075" width of narrow bar or space (0.01" recommended)
Batteries	Rechargeable nickel-cadmium batteries provide up to 3 days of charge depending upon use
Charging Time	Minimum 12 to 15 hours for fully drained batteries
Serial Communications	Built-in asynchronous RS-323 serial port; baud rates from 300 to 19.2K
Keypad	19 keys; alphanumeric capability

System Layout

GENERAL SYSTEM LAYOUT

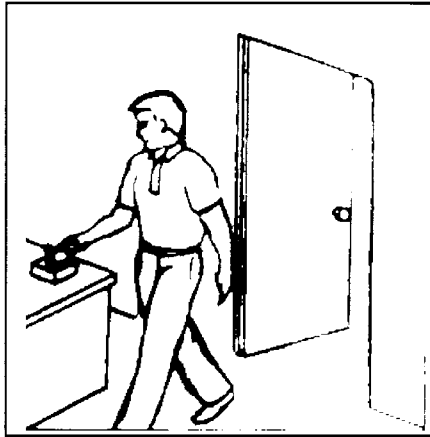


The Automatic Time and Asset Management System is designed to work with Claris FileMaker Pro and Microsoft Excel

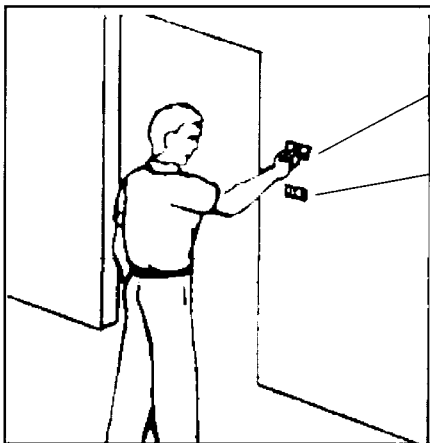
A	BAR CODE LABEL PRINTER
B	COMPUTER (APPLE MACINTOSH)
C	LASER PRINTER
D	BAR CODE READER (SCANNER)
E	DOWNLOAD STATION
F	MULTIPLE STATIONS (AS REQUIRED)
G	RAW DATA ORGANIZATION
H	DATABASE (CLARIS FILEMAKER PRO)
I	SPREADSHEET (MICROSOFT EXCEL)

To illustrate the versatility of the ATAMS, follow Bob, our all around middle manager / team leader guy, through at typical day.

An Illustration



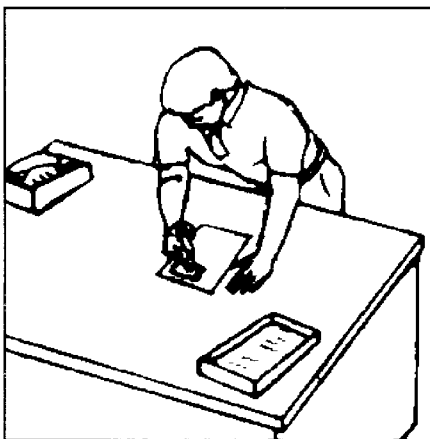
Bob comes in and picks up his bar code reader



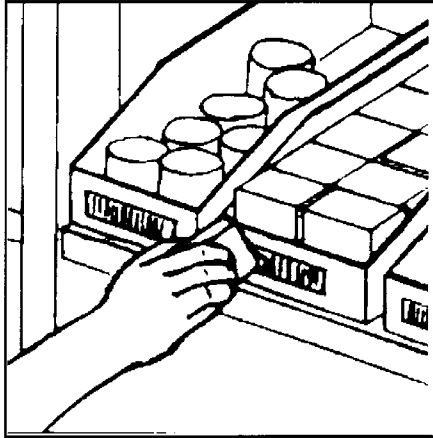
Bar Code "IN"

Bar Code "OUT"

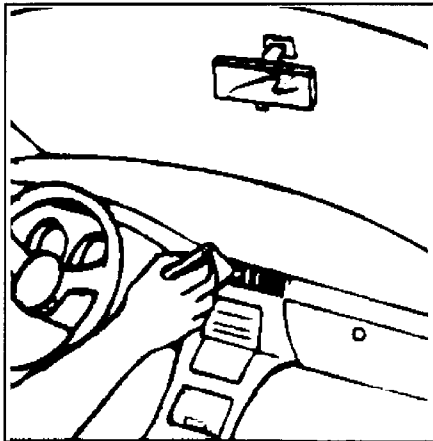
Bob sweeps (scans) the "IN" bar code on his way into his office. This starts Bob's payroll time (no more time clocks). Every time a bar code is scanned, the time and date of the scan is automatically logged.



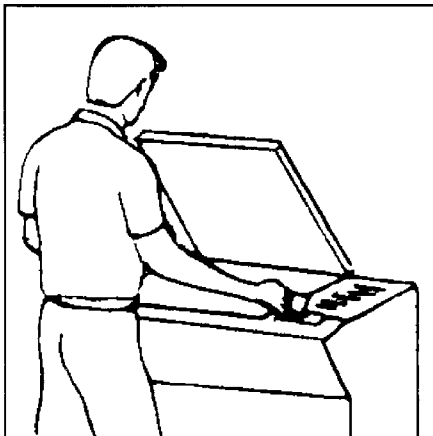
Bob selects a work order to get started on and scans the work order number. This starts the meter running on that particular job.



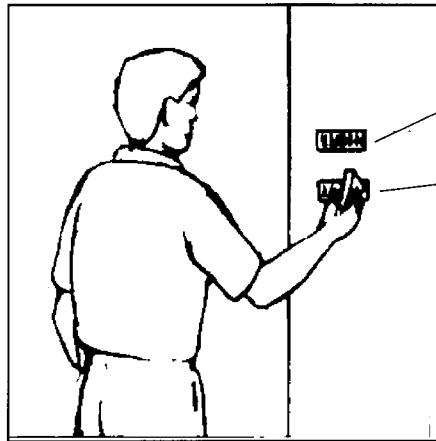
Bob requires some parts from inventory. He scans the bar code on the box which automatically logs the parts out of inventory and assigns them to the work order he is working on.



Bob needs to make a run to the hardware store to pick up an item he needs. He scans the bar code on the dash board and punches in the last three digits shown on the odometer when he leaves and then again when he returns. (The information recorded by the scanner is used to calculate the mileage and is logged against the work order.)



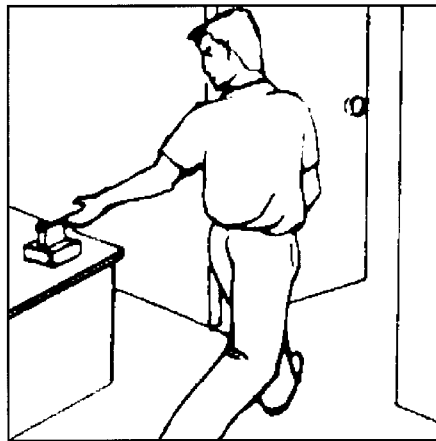
Bob sends a couple of faxes and makes a couple of copies. (Now copiers and fax machines can become profit centers.) The copies and faxes are logged under the work order.



Bar Code
"IN"

Bar Code
"OUT"



Bob's day is over, so he logs out. This stops his payroll time as well as the time accruing against the work order.



Bob puts his bar code scanner into the download station and the day's data is automatically transferred to the computer.

Bob's Report (For Example - Using Filemaker Pro):

Reports

ACTIVITY REPORT FOR: BOB			
PAYROLL TIME START:	08:03	5-10-95	CURRENT REPORT DATE: WEDNESDAY, 5-11-95 LAST REPORT DATE: TUESDAY, 5-10-95
PAYROLL TIME STOP:	17:28	5-10-95	
		PAYROLL TOTAL TIME:	
		STRAIGHT TIME:	8.0 HRS
		OVER TIME:	0.25 HRS
		DOUBLE TIME:	0.0 HRS
WORK ORDER #	1234	START:	08:09
TASKS			
REVIEW DRAWINGS:	START	08:15	STOP 12:05:12
COPIES			
COPIER #	16	QTY:	10
TYPE:	2	20# WHITE 8 1/2" X 11"	COST EA: \$.10 TOTAL: \$ 1.00
COPIER #	20	QTY:	1
TYPE:	5	20# COLOR 8 1/2" X 11"	COST EA: \$ 1.50 TOTAL: \$ 1.50
PHONE CALLS PLACED AND RECEIVED:			
CALL PLACED FROM EXTENSION#	17	START	08:22:31
DURATION	5.3	MIN'S	
CALL PLACED FROM EXTENSION#	17	START	08:31:26
DURATION	6.1	MIN'S	
CALL RECEIVED FROM EXTENSION#	17	START	08:42:40
DURATION	4.0	MIN'S	
FAXES SENT AND RECEIVED:			
FAX SENT VIA FAX MACHINE#	7	QTY:	2
COST EA:	\$ 1.50	TOTAL:	\$ 3.00
STOP:	12:05:12		
GO TO LUNCH	12:05	DURATION	01:01
BACK FROM LUNCH	13:06		
WORK ORDER #	1234	START:	13:10:11
REMOVED FROM INVENTORY:			
BIN #	539	QTY:	3
LIMIT SWITCH #605M-32	COST EA:	\$ 25.42	TOTAL: \$ 25.42
VEHICLE USE:			
TRUCK #	4	DEPART HOME BASE	14:20
ARRIVE @ DESTINATION	14:28		
DEPART DESTINATION	15:03	ARRIVE @ HOME BASE	15:12
START MILEAGE	537.1	STOP MILEAGE	552.5
TOTAL MILEAGE	15.4	M.	X \$ 30/MIL \$ 4.62
ASSEMBLE PARTS	START	16:15	STOP 17:20
STOP:	17:20		
MESSAGE FROM: MIKE SMITH (NIGHT SHOP SUPERVISOR) 18:22 5-10-95			
PLEASE ORDER REPLACEMENT PARTS FOR FORKLIFT.			
MESSAGE FROM: JOHN HAILEY (O.A.- Q.C. DEPARTMENT) 15:15 5-10-95			
PLEASE HAVE MACHINE SHOP BRING IN MEASURING TOOLS IN TO BE CALIBRATED.			
WO#1234			
TOTAL TIME ACCRUED:	08:06		
TOTAL OFFICE CONSUMABLES:	\$ 5.50		
TOTAL TRAVEL:	\$ 4.62		
THE ABOVE INFORMATION IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE EXCEPT AS NOTED:			
	SIGNATURE	DATE	TIME
BOB 5 - 11 - 95			PAGE 1 OF 1 PAGES

Automatically retrieved from database of Office Supplies.

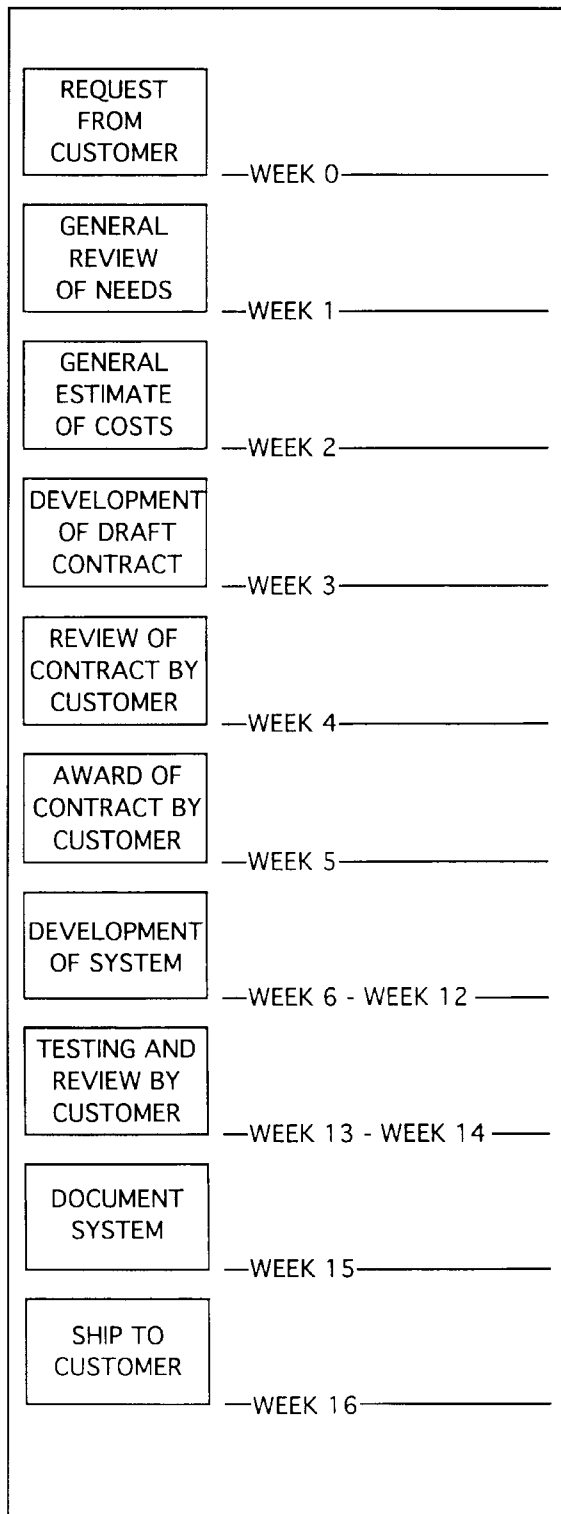
Automatically retrieved from database of Inventory Items.

These messages were entered by Mike and John and were automatically added to Bob's report. Mike and John were able to communicate without directly talking to Bob. This type of communication saves time.

Data logged by the scanner can be exported to a spreadsheet or database application (such as Microsoft Excel or Claris FileMaker Pro). Customizable reports can then be generated, displaying the information in virtually any format that the end user desires. Michael H. Clement Corp. can design the complete system pursuant to the customer's request.

All data that the scanner downloads to the computer is stored for historical reference.

**GENERAL PROJECT
IMPLEMENTATION TIMELINE
(Depending on Complexity)**



Timeline

For customers that do not want to take the time to customize a complete database system, Michael H. Clement Corp. can provide a turnkey system including:

- Designing of databases
- Data entry
- Designing of screens and forms
- Designing of reports
- Layout of switch over procedure
- Development of training material
- Installation of equipment
- Training
- Commission of system

Please send a list or description of your complete requirements to Michael H. Clement Corporation at

Michael H. Clement Corp.
3500 Wilbur Avenue
Antioch, CA 94509

or fax to

(510) 778-6771.