



# British Institute of Engineering Technology

INSTITUTION OF ELECTRICIANS AND INSTITUTION OF ELECTRICAL ENGINEERS  
INSTITUTE OF ELECTRICAL ENGINEERS (I.E.E.)

REF/22/481116

TO WHOM IT MAY CONCERN

re: VASCO JOSE DA CUNHA MACHADO ,  
Av. Sidonio Pais 314/2 /esq.,  
PORTO - PORTUGAL.  
Student Number 481116.

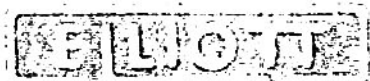
V. Machado, Esq., registered in November 1963 with the British Institute of Engineering Technology for a course of instruction in preparation for the Institution of Electronic & Radio Engineers Graduateship Examination.

He has to date studied the elements of Mathematics and Electronic Principles and obtained assessment awards in the classification 'Good' on the average for completed lesson-work in both subjects.

Consideration given to these particulars regarding Mr. V. Machado's studies under our guidance, especially in connection with his future career, will naturally be much appreciated.

Donald Mobery, B.Sc., A.K.C.  
INDUSTRIAL LIAISON OFFICER.

31st August, 1966.



# ELLIOTT BROTHERS (LONDON) LTD.

ELSTREE WAY, BOREHAMWOOD, HERTFORDSHIRE

TELEPHONE: ELSTREE 2040 EXT 80      Established 1800      PO BOX 113 BOREHAMWOOD TELEK

CRS/GMN.

19th July, 1963.

TO WHOM IT MAY CONCERN.

This is to certify that Mr. VASCO JOSE DA CUNHA MACHADO, Electronics Engineers employed by the National Cash Register Company Ltd., Portugal, has attended an Engineering Course on 803B Computer at Elliott Brothers (London) Ltd., England, from 8th April 1963 to 27th July 1963.

C. R. Trimby,  
Chief Instructor,  
Engineering Training School.

# ELLIOTT-AUTOMATION COMPUTERS LIMITED

A MEMBER OF THE ELLIOTT AUTOMATION GROUP  
COMPUTER MAINTENANCE DIVISION

BARNET BY-PASS · BOREHAMWOOD · HERTFORDSHIRE

Telephone: Elstree 5333 · Telegrams: Ellotauto · Borehamwood · Telex: 22777

OUR REF  
YOUR REF

328:bp.

September 21 1967

## THE SCHOOL OF COMPUTER ENGINEERING

### TO WHOM IT MAY CONCERN

This is to certify that Mr. VASCO JOSE DA CUNHA MACHADO,  
Electronic Engineer employed by the National Cash Register  
Company Limited, Portugal, has attended courses in digital  
computer engineering as under :

- i) 4120 Central Processor, including
  - 4220 Control typewriter
  - 4222 Control teleprinter
  - 4210 Paper Tape Station
  - 4320/5 Magnetic Core Store modules (6 $\mu$ S)from February 6 to June 9 1967. (excepting 2 weeks  
see (v) below).
- ii) 4130 Central Processor  
from July 3 to August 25 1967.
- iii) 4124/5/8 Autonomous Transfer Units  
from August 29 to September 6 1967.
- iv) 4330/40/45 Magnetic Core Store modules (2 $\mu$ S)  
from September 11 to September 22 1967.

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TO WHOM IT MAY CONCERN

## SCHOOL OF COMPUTER ENGINEERING

This is to certify that Mr Vasco Machado has attended courses of instruction of the equipment listed hereunder, held in the Elliott-Automation School of Computer Engineering.

808B Digital Computer  
Central Processor complete with paper tape station  
Floating-Point Arithmetic unit  
Film backing store  
Card Input  
From April 8th to July 19th 1963

4120 Digital Computer  
Central Processor Complete with paper tape station  
and 6 microsecond Store  
From February 6th to April 28th 1967 (part 1)  
and May 15th to June 9th 1967 (part 2)

4274/5 Magnetic Tape Storage Equipment  
From May 1st to May 12th 1967

4256/7 Line Printers  
From June 26th to June 30th 1967

4130 Digital Computer Central Processor  
Autonomous Transfer Unit and  
2 microsecond Store  
From July 3rd to September 22nd 1967

4265/9 Line Printer (ANelex)  
From June 4th to June 21st 1968

He has diligently performed the work of the class and satisfied his instructors as to his understanding of the principles involved and his competence to work with the equipment.

Dated this 24th day of June in the year 1968



W. S. Ellis  
Manager, School of Computer Engineering

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COMPUTER MAINTENANCE DIVISION

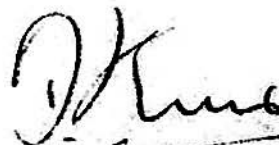
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- v) 4268/9 Magnetic Tape Storage System (12 Kc/s)  
4274/5 Magnetic Tape Storage System (33 Kc/s)  
from May 1 to May 12 1967.
- vi) 4256/7 Lineprinters  
from June 26 to June 30 1967.
- vii) Practical work on the equipment studied in  
the courses was conducted partly on equipment  
held by the School and partly on equipment  
in production.



F.S. Ellis  
Manager