via Berna, 34	**Federico Munerotto**	tel +39 041 540 2423
I-30030 Martellago VE	mune@ieee.org	fax +39 041 540 2644
Italy	http://www.krl.it/~mune	cell +39 320 025 8722

Objective

A position in software design, development in Communication Networks, Digital Signal Processing, Embedded Systems.

Education

University of Padua (Università degli Studi di Padova, Italy) Graduated in Computer Engineering in July 1999 with a score of 98 out of 110.

Boston University Semester Fall 97, College of Engineering, Boston MA USA. Computer Engineering Major. Enrolled as Exchange Student with a scholarship. GPA 3.5 for four technical courses (16 credits).

I.T.I.S. "C.Zuccante" Diploma of *Perito Informatico* with grade of 54/60 in 1991.

Computer Knowledge

	Languages		**OS**
BASIC	Assembly 68k, 8086	Java	Linux
Tcl/Tk	Matlab	SQL	Solaris
Pascal	ObjecTime	HTML	MS-DOS
C	MS SDK, MFC	C++	MS-Windows
Samba	PHP3,JavaScript	Unix shell	

Relevant Courses

Software and System Design	Process Control
Signal Theory	System Theory
Programming courses	Control Theory
Microelectronics	Digital Electronics
Parallel Computing	Automata Theory and Formal Languages
Digital Signal Processing	Computer Architecture
Operating Systems	Computer and Communication Networks

Design Projects

Matlab program to find the pose and orientation of a camera from a square-on-the-wall picture of known real side size. Related issues are Affine Geometry, Quaternions (Horn), Edge detection, Binarization with Auto-thresholding.

Matlab program to simulate the control of an autonomous vehicle equipped with a camera which have to reach and track an unknown path (the world is black the path is white). Related issues are Kalman Filtering, System Theory, Computer Vision.

Design and development of an Automatic Teller Machine as an embedded system. Related issues are Real-Time Object Oriented Development, ObjecTime.

Laurea Thesis

Mentor: Prof. Ruggero Frezza. Title:Vision Technics applied to fruit grading systems: a step toward the omofocal camera. The thesis is in collaboration with Biovision, a company specialized in machine vision systems for the automatic inspection of biological products. Matlab procedures and a Java application have been developed. n views of fruit are recostructed onto a sphere concentric to the fruit itself to avoid the perspective projective distortion of the fruit superficial defects. A new theoretical paradigm for a camera is developed. Related issues are Image Warping, Computer Vision, Image Correlation, Image Reconstruction, Computational Geometry, Palimpsest algorithms.

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Work Experience

LTD 2000-now

Long Term Disability

Firmware engineer Brooktrout Tech. 2000-2002

Member of the TR2001 team.

Skills: SCO Unixware, teleco

System Administrator Venice's Firefighters Command, 1998-1999 + term contract 1999

Planned and implemented the intranet for the Venice's Firefighters Command integrating Unix SCO, Linux, Windows systems (order of 40 PC's networked) with WAN and dial-up connections. Developed client/server web-oriented applications. Skills: Linux, Windows, Networking, Samba, Apache, HTML, PHP3, Javascript.

Applet for Teletext browsing MicroTex, 1998

Java applet for Teletext browsing via Internet. Skills: Java, HTML, Javascript.

Data-collecting and reporting applications Feltrificio Veneto, 1996-1997

MS-Windows application for the acquisition of data from measurement instruments through the serial port, importing sketches from WMF files, WYSIWYG interface, report printing, exporting of the collect data to Excel and to the AS/400 server. Skills: MS-Visual C++.

Porting Teletext library from Windows to Linux MicroTex, 1996

Porting of a Windows DLL for the handling of a teletext ISA board to Linux, writing a kernel module. Skills: Linux, C.

Distributed Information System MicroTex, 1996

Collaborating in the development of a wide project based on an MS Windows NT server and remote clients connected through ISDN or phone dial-up, with RAS protocol. The remote clients accessed through ODBC the server which adopted RAID disks and managed the data base with MS SQL Server. Skills: Windows, SQL, Windows NT.

Image Analysis & Archiving Casti Imaging, 1993-1995

Developing Windows applications with MS Visual C++ for camera grabbing of images (with Truevision Targa+, Matrox Marvel II) and their archiving (MS Access via ODBC). I have written procedures for the filtering, computation of measures on the images, etc. Skills: MS-Visual C++, SQL, ODBC.

Technical Support Hardware/Software, customer trainer Data Group, 1991-1993

Collaborated with a firm specialized in automatic systems for the pharmacies, as a hardware/software technician and as a customer trainer. Skills: Interpersonal relations, PC hardware knowledge.

Extracurricular Activities

IEEE Member

Pluto Linux User Group Member

Personal Information

Italian Citizenship

Languages: Italian (first language), English and basics of German and Spanish

National Service: Italian National Corp of Firefighters at the Venice's Command from July 1998 to July 1999