

George Modebadze

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Work experience

- From 2022: He is an assistant professor at Ilia State University.
Read courser:
System programming.
Computer and data networks.
Computer Organization.
Introduction to Operating Systems.
Mentor in the final course design project
- 2021-2022: Business and Technology University.
Guest lecturer.
Read courser:
Operation system linux.
- 2020-2022: Ilia State University.
Guest lecturer.
Read courser:
System programming.
Computer and data networks.
- 2018 - 2021 Ltd. SmartHouse.
programmer.
Project type:
Programming of embedded systems and microcontrollers.
Industrial network protocols.
- 2013 – 2015 Ilia State University.
Guest lecturer.
Read courser:
System programming.
Assembler programming language.
- 2008 – 2010 Ivane Javaxishvili State University.
Guest lecturer and engineer.
Read courser:
System programming.
Assembler programming language.
- 2006 - 2007 Department of Border Protection.
Border Technology Development Division:
Deputy Head of Department.
- 2004 - 2005 Private projects.
Programmer.
Project type:
Graphic 3D scenes.

Education

1996 – 2000

Iv. Javakishvili State University Sokhumi Branch.
Degree: Bachelor of Physics.

2000 – 2003

Iv. Javakishvili State University.
Degree: Master of Physics.

Knowledge and skills

foreign languages:

Georgian native.
English in full.
Russian in full.

Assembler and machine languages:

Processors and microcontroller architectures:
x86, AMD64, AVR8, PIC8, STM8, ARM32 and ARM64.

High-level languages:

C/C++.
C#.
java.
Python.

Database:

MySQL.
MS-SQL.

Programming interfases:

Windows User Mode programming.
Windows Kernel Mode programming.
Windows System calls.
Linux User Mode programming.
Linux Kernel Mode programming.
Linux System calls.
Qt C++.
PyQt.
Nvidia Cuda API.

Communication Protocols

OneWire.
I2C.
UART/USART.
PWM.
RS485 & RS232.

Computer network protocols

ARP, UDP, TCP, HTTP, DNS, DHCP, FTP.
ModBus TCP, BACnet IP, BACnet Ethernet.

Production network protocols

ModBus TCP.
ModBus MS/TP.
BACnet IP.
BACnet Ethernet.

Microcomputers

Raspberry PI 3/4.
Beagle Bon.
Jaguar One.
Khadass.
Banana PI.

Microcontrollers

- KMC.
- AVR8.
- PIC8.
- STM8.
- ESP8266.
- ESP32.

Different topics

- Real and protected modes of Intel processor.
- ELF and PE Executable file formats.

Areas of interest:

- System programming.
- Programming of built-in systems.
- Microcontrollers programming.
- Design of computing systems.