

FACULTY OF MATHEMATICS, PHYSICS AND COMPUTING

I, ALIUSKA MUÑOZ CAMPOS, TEACHING SECRETARY AT THE FACULTY OF MATHEMATICS, PHYSICS AND COMPUTING AT UNIVERSIDAD CENTRAL DE LAS VILLAS.....

CERTIFY that **César Soto Valero** studied at Universidad Central de Las Villas and graduated with a BSc degree in Computer Science at the end of the 2012-2013 academic year, achieving the following grades:

Logic	4
Mathematical Analysis I	3
Algebra I	5
Algebra II	3
Programming	4
English I	5
English II	5
Geometry	5
Philosophy and Society	5
Economics and Politics of Capitalism	5
Physical Education I	5
Physical Education II	5
History of Cuba	5
Work and Research Experience I	5
Machine Programming I	3
Computer Architecture	4
Data Structure and Algorithms I	4
Data Structure and Algorithms II	4
Discrete Mathematics I	3
Discrete Mathematics II	4
Ordinary Differential Equations	3
Mathematical Analysis II	3
Database Systems I	3
English III	5
Economics and Politics of the Construction of Socialism	4
National Security	5
Physical Education III	5
Physical Education IV	5
Optional Course I (Introduction to Scientific Working)	4
Work and Research Experience II	5
Operating Systems I	3
Operating Systems II	4
Database Systems II	3

Compiling	3
Software Engineering	4
National Defence	5
Algorithm Design and Analysis	3
Programming Languages	5
Numerical Mathematics I	4
Numerical Mathematics II	4
Computer Networks	3
Optional Course II (Training in Law, Economics, the Environment and Teaching)	5
Work and Research Experience III	3
Optimisation Models I	3
Probability and Statistics	4
Computer Systems	4
Supplementary Compiling	5
Optional Course III (Network Administration)	5
Sociopolitical Theory	5
Social Issues in Science and Technology	5
Declarative Programming	3
Optimisation Models II	3
Optional Course IV (E-Commerce)	5
Optional Course V (Information Security)	4
Work and Research Experience IV	5
Simulation	4
Artificial Intelligence	4
Information Systems	5
Higher Education Teacher Training	5
History of Computing	5
Optional Course VI (Statistics Workshop)	5
Optional Course VII (Diploma Project)	4
Elective I (Writing and Communication)	5

DIPLOMA PAPER: 5

GRADE POINT AVERAGE: 4.21

Signed on 12th July 2013 ("Year 55 of the Revolution") at Universidad Central de Las Villas:

[Signature and official stamp appear]

Aliuska Muñoz Campos
Teaching Secretary
Faculty of Mathematics, Physics and Computing
UCLV

