

Carnegie Mellon University

attests that

Walter Sobkiw

has successfully completed the requirements of the

Professional Education Series

.....
**Introduction to the Capability Maturity Model®
-Integrated, Staged Representation, v1.1**
as offered by the Software Engineering Institute
and hereby presents this certificate in testimony thereof,
on this day of September 19, 2002.

A handwritten signature in black ink, appearing to read "Mark S. Kamel", written over a horizontal line.

Provost
Carnegie Mellon University

A handwritten signature in black ink, appearing to read "Stephen E. Cross", written over a horizontal line.

Director
Software Engineering Institute

A handwritten signature in black ink, appearing to read "J. ...", written over a horizontal line.

Instructor



Carnegie Mellon
Software Engineering Institute

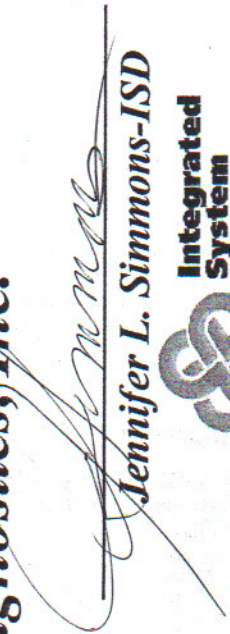
Certificate of Completion

Walter Sobkiw

in recognition of completing the course
CMMISM (SE / SW / IPPD / SS V1.1)
- An Introduction - Staged Representation
conducted by

Integrated System Diagnostics, Inc.

Completion Date
September 19, 2002


Jennifer L. Simmons-ISD



® CMMI is registered in the U.S. Patent and Trademark Office



communications

Certificate of Achievement

Presented to

Walt Sobkiw

In recognition of your successful completion of the Spring 2000

Information Security Course

Demonstrated knowledge of Basic Concepts, Network Security and
Vulnerability, and Access Controls

K.R. Eichen

Course Coordinator

James H. Bodzick

Vice President - Engineering



communications

CERTIFICATE OF COMPLETION

This is to Certify that

Walter Sobkiw

Has Successfully Completed

Effective Team Leadership

April 2004



Karen Biernesser
CAM Consulting Services





Ken Bodzioch
Vice President of Engineering
L-3 Communications Systems - East



communications

CERTIFICATE OF APPRECIATION

Presented to

Walt Sobkiw

**To say "Thank you" for your help
with the Preparation and Presentation of our
Continuing Education Courses**

KR Edyein

Coordinator

Genneth Bozdech

Director of Technical Operations

PBS THE BUSINESS & TECHNOLOGY NETWORK

As a matter of record, this document attests to the following student's diligence in pursuing a standard of excellence and the fulfillment of all exercises and activities associated with this

Certificate of Completion

Walter Sobkiw

Received 0.60 Continuing Education Units (CEU)

For participating in the satellite broadcast entitled:

Digital Signal Processing and Filtering

Sponsor: National Technological University

Instructor: Jim Prater

September 18, 2000

Topics Covered:

- Understand sampling and Nyquist limits
- Use the Z and Fourier transforms to analyze discrete time linear systems
- Use the Fast Fourier Transform (FFT) & Design FIR and IIR digital filters
- Understand basic quantization effects in digital filters



PBS®

THE BUSINESS & TECHNOLOGY NETWORK®

Presented by

July 31, 2001

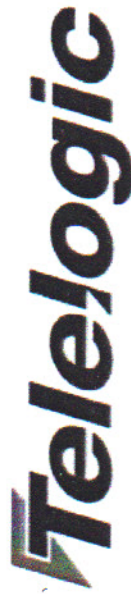
515

Marilyn K Crawford

Marilyn K. Crawford

Vice President, Programming

PBS The Business & Technology Network



This is to certify that

Walt Sobkiw

Of

L-3 Communication Systems

Has successfully completed the Telelogic

Professional Education Training in the study of

Rhapsody Essentials Tool Training For Software Engineers

March 5, 2007 – March 8, 2007

Date: **March 2007**

A handwritten signature in blue ink, which appears to read "Bruce P. Douglass", is written over a horizontal line.

Bruce P. Douglass
Chief Evangelist

A handwritten signature in blue ink, which appears to read "Ron Felice", is written over a horizontal line.

Ron Felice
Applications Engineer



communications

Certificate of Achievement

Presented to

Walt Sobkiw

In recognition of successfully completing these 1998/99

Radio Frequency/RF and Microwave Design Course Classes

RF Circuit Fundamentals I
RF Circuit Fundamentals II
RF Filters and Matching Circuits
Introduction to the Smith Chart

Transmission Line Realization
RF/Microwave Transistor Amplifier Design
Oscillator Design Principles

A handwritten signature in cursive script, likely belonging to the Course Coordinator.

Course Coordinator

A handwritten signature in cursive script, likely belonging to the Vice President of Technical Operations.

Vice President of Technical Operations



communications

CERTIFICATE OF ACHIEVEMENT

Presented to

Walt Sobkiw

In recognition of your successful completion of the Fall 1997

Modern Telecommunications Systems Course

Demonstrated knowledge of Traffic Engineering,
Telephone System Operation, & Radio Wave Propagation and
Digital Carrier Systems

K.R. Schen

Coordinator

Kenneth A. Bodzioch

Director of Technical Operations



communications

CERTIFICATE OF APPRECIATION

Presented to

Walt Sobkiv

To say "Thank you" for your help
with the Preparation and Presentation of our
Continuing Education Courses

KR Edgerin
Coordinator

Jennith Boobyich
Director of Technical Operations



National Technological University

Advanced Technology and Management Programs

Certificate of Completion

Walter Sobkiw

Received 0.4 Continuing Education Units (CEU)

For participating in the satellite broadcast entitled:

Symmetric Replication Overview

Sponsored by: The Oracle Corporation

Instructor: Jenny Tsai

September 19, 1996

Topics Covered:

- *Symmetric Replication Concepts and Architecture*
- *Create and Maintain the Replicated Environment*
 - *Updatable Snapshots*
 - *Resolve Conflicts*

A handwritten signature in blue ink, appearing to read "Doug Yeager", is written over a horizontal line.

Douglas M. Yeager, Vice President



National Technological University

Advanced Technology and Management Programs

Recognition of Attendance

Walter Sobkiw

Received 0.5 Continuing Education Units (CEU)

For participating in the satellite broadcast entitled:

ISDN Technology and Applications

Sponsored by: Northeastern University

Instructor: Fred R. Goldstein

July 11, 1996

Topics Covered:

- *How ISDN Provides End-to-End Digital Services*
- *Issues Around ISDN Compatibility*
- *Informed Decisions About ISDN's Potential Cost and Benefits*
- *Issues Surrounding Provisioning of ISDN Services*

A handwritten signature in blue ink, appearing to read 'Douglas M. Yeager', is written over a horizontal line. The signature is fluid and cursive.

Douglas M. Yeager, Vice President



National Technological University

Advanced Technology and Management Programs

Recognition of Attendance

Walter Sobkiw

Received 0.5 Continuing Education Units (CEU)

For participating in the satellite broadcast entitled:

Course 101- Fundamentals of Global Positioning System (GPS)

Sponsored by: Violette Engineering Corp./NavTech Seminars

Instructor: Keith D. McDonald

December 18, 1995

Topics Covered:

- *GPS Space Segment*
- *GPS Constellation Configuration*
- *GPS System Concept and Operation*
- *GPS Receivers and Performance*

A handwritten signature in black ink, appearing to read "Douglas M. Yeager".

Douglas M. Yeager, Vice President



National Technological University

Advanced Technology and Management Programs

Certificate of Completion

Walter Sobkiw

Received 0.5 Continuing Education Units (CEU)

For participating in the satellite broadcast entitled:

Methodologies of Object Oriented Analysis and Design

Sponsored by: Boston University

Instructor: Eric Braude

October 4, 1996

Topics Covered:

- *The Main Components of All OO Analysis and Design Methodologies*
 - *Reasonable Requirements for a Methodology*
 - *The Components of Several Key Methodologies*
- *Strengths, Weaknesses, and Areas of Focus of Principal Methodologies*

A handwritten signature in blue ink, appearing to read "Douglas M. Yeager", is written over a horizontal line.

Douglas M. Yeager, Vice President



National Technological University

Advanced Technology and Management Programs

Certificate of Completion

Walter Sobkiw

Received 0.5 Continuing Education Units (CEU)

For participating in the satellite broadcast entitled:

Introduction to Java

Sponsored by: Boston University

Instructor: Eric Braude

November 15, 1996

Topics Covered:

- *The Basics of Java*
- *Relating Java to Distributed Object-Oriented Development*
- *The Differences Between Java and C++*

A handwritten signature in dark ink, appearing to read "Doug Yeager", is written over a horizontal line.

Douglas M. Yeager, Vice President



National Technological University

Advanced Technology and Management Programs

Certificate of Completion

Walter Sobkiw

Received 0.5 Continuing Education Units (CEU)

For participating in the satellite broadcast entitled:

An Introduction to C++ for C Programmers

Sponsor: University of Southern California

Instructor: Ira Pohl

April 11, 1997

Topics Covered:

- Understand the basic concepts of C++
- Know standard C++ programming techniques
- Have an overview of C++ that will enable you to evaluate its usefulness to you and your organization

A handwritten signature in dark ink, appearing to read 'Douglas M. Yeager', is written over a horizontal line.

Douglas M. Yeager, Vice President