

Pathfinder Regional Vocational Technical High School

Palmer, Massachusetts

This Certifies That

Michael Andrew Ludning

Has successfully completed a Course of Study prescribed for graduation
from this School and is therefore awarded this

Diploma

Given in the month of June, nineteen hundred and ninety-three.

Orme F. Part

Superintendent-Director



Michael J. Cavanaugh

Chairman of the School Committee

Pathfinder Regional Vocational Technical High School

Palmer, Massachusetts

This Certifies That

Michael Andrew Ludwing

has successfully completed 2,000 hours
in the field of Drafting

at Pathfinder Regional Vocational-Technical High School

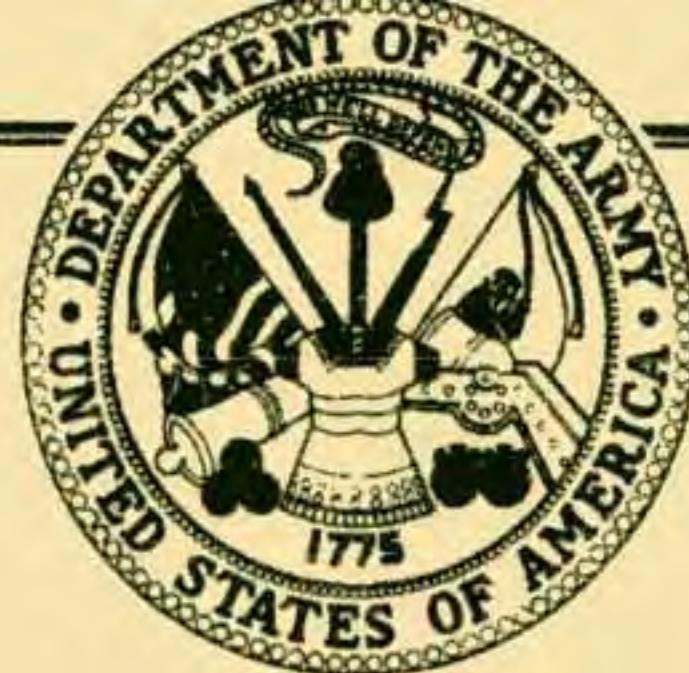
This certificate is awarded in Palmer, Massachusetts,

Given in the month of June, nineteen hundred and ninety-three.

Opieau F. Part
Superintendent-Director



Michael Kavanaugh
Chairman of the School Committee



DEPARTMENT OF THE ARMY

CERTIFICATE OF TRAINING

Is Awarded to

PVT Michael A Ludwig

For Successfully Completing

BASIC COMBAT TRAINING

A co 1st Bn 48th INFANTRY REGIMENT

Given at Fort Leonard Wood, Missouri

On 2 April 1998

PATRICK R. ERICKSON

CPT. MI

Commanding

United States Army Signal Center and Fort Gordon



Fort Gordon, Georgia

Certifies that

MICHAEL A LUDWIG 032-53-3247



having successfully fulfilled the prescribed requirements of instruction
is hereby declared a

Graduate

of

NETWORK SWITCHING SYSTEMS OPERATOR-MAINTAINER 260-31F10
COURSE LENGTH - 644 HOURS
(18-May-98 - 21-Sep-98)

In testimony whereof, and by authority vested in us, we confer this

Diploma

Presented on the 21ST day of SEP 19 98 .

Larry L. Turgeon
Colonel, Signal Corps
Regimental Director of Training

Peter M. Cuijello
Major General, U. S. Army
Commanding General

GTE RESIDENT SCHOOL

FORT GORDON, GA.

This is to certify that

PV1 MICHAEL A. LUDWIG

has successfully completed the

ELECTRONIC SWITCHING SYSTEMS
OPERATOR / MAINTAINER COURSE (31F)

Course Length - 16 Weeks

May 20, 1998 through September 11, 1998



*Presented by GTE Government Systems Corp.
at
The U.S. Army Signal Center & Fort Gordon,
Fort Gordon, GA*

A handwritten signature in black ink that reads "John D. Shader".

GTE Resident School Training Manager

A handwritten signature in black ink that reads "Robert S. Sneed".

Manager, GTE Resident School

Date: September 11, 1998



United States Army Signal Corps

- Fort Gordon, Georgia -



CERTIFICATE OF SIGNAL CORPS (REGIMENTAL) AFFILIATION

By virtue of the authority vested in me as the Chief Signal Officer, U.S. Army,

Be it known that

MICHAEL A LUDWIG 032-52-3247

has achieved the requisite and professional standards for recognition as an affiliated member of the United States Signal Corps (Regimental).

Your affiliation shall continue so long as you remain a member of the United States Army Signal Corps in any military or government service status.

Issued at
The Home of the Signal Corps
this 21st day of SEP 19 98

Peter M. Cuvillo
PETER M. CUVILLEO
MG, USA
Commandant

United States Army Infantry School



Be it known that

PVT MICHAEL A. WOJDAKOWSKI

032-52-3247

has successfully completed the

Airborne Course

at this institution and that in testimony
thereof is awarded this

Diploma

Given at Fort Benning, Georgia, on this the

16TH day of

OCTOBER

, nineteen hundred and

NINETY-EIGHT



Walter Wojdakowski
Brigadier General, USA
Assistant Commandant

Carl F. Ernst
Major General, USA
Commandant



DEPARTMENT OF THE ARMY

CERTIFICATE OF TRAINING

This is to certify that

PFC LUDWIG, MICHAEL A. 032-52-3247

has successfully completed

DRIVER'S TRAINING COURSE

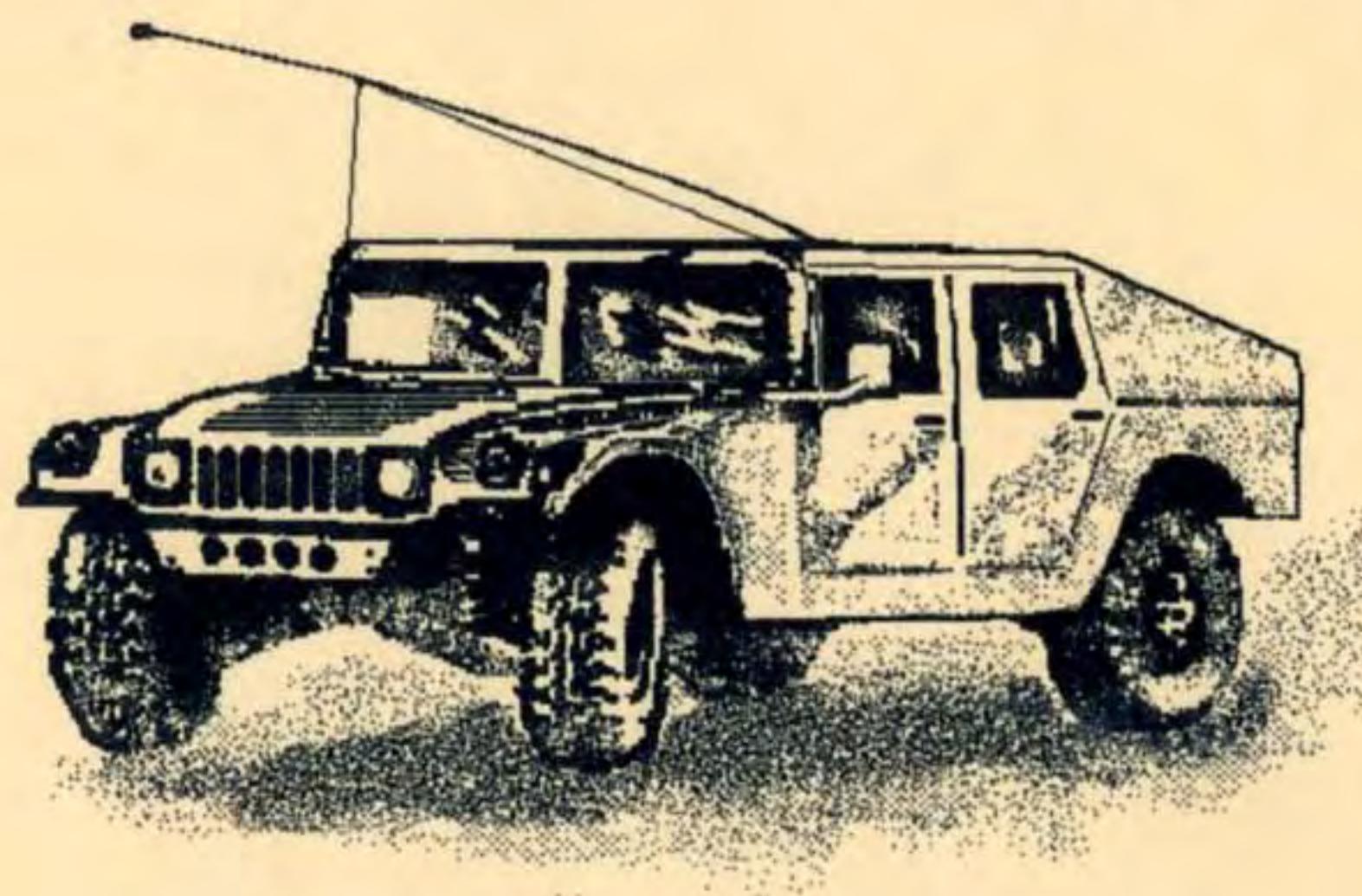
(40) HOURS

07 JUNE 1999 – 14 JUNE 1999

Given at FORT BRAGG, NC

BRIAN J. DONAHUE
LTC, SC
Commanding

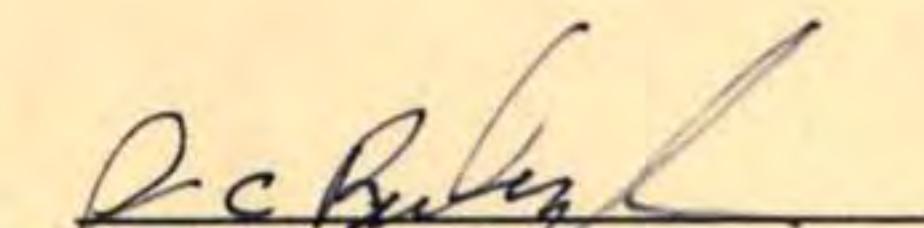
Certificate Of Completion



This is to certify that
SPC Michael Ludwig

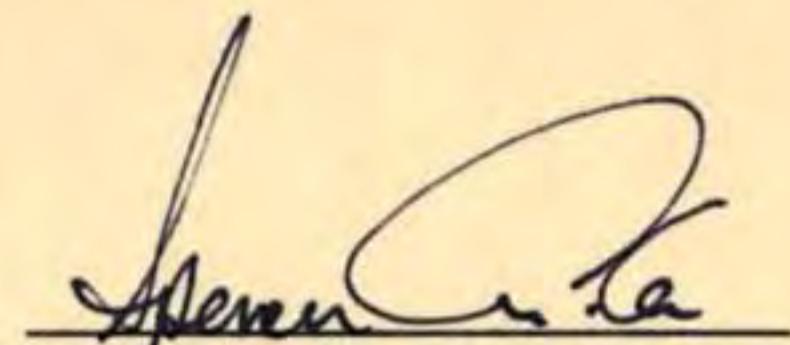
has successfully completed the Tactical High Speed
Data Network Switch Operator Course (32 Hours)
at Fort Bragg, North Carolina February 28-March 2, 2000

GENERAL DYNAMICS
Worldwide Telecommunication Systems



Jamie C. Rumbaugh
Technical Training Specialist

Bldg 25810, Chamberlain Ave
Fort Gordon, Georgia 30905



Spencer Crocker
Technical Training Specialist



DEPARTMENT OF THE ARMY
82d Signal Battalion (Abn. Div.)
CERTIFICATE OF ACHIEVEMENT

AWARDED TO

SPC MICHAEL A. LUDWIG

FOR OUTSTANDING PERFORMANCE DURING OPERATION PURPLE DRAGON 2000. SPC LUDWIG'S PERFORMANCE AND DEDICATION BRINGS DISTINCT CREDIT UPON HIMSELF, ALPHA COMPANY, 82D SIGNAL BATTALION, THE 82ND AIRBORNE DIVISION, AND THE UNITED STATES ARMY.

Given this 24TH day of JULY Two-Thousand and 00

James W. Anderson

JAMES W. ANDERSON
CSM, USA
Command Sergeant Major

Campbell P. Cantelou

CAMPBELL P. CANTELOU
LTC, SC
Commanding



DEPARTMENT OF THE ARMY

CERTIFICATE OF TRAINING

This is to certify that

SPECIALIST MICHAEL A. LUDWIG

032-52-3247

has successfully completed

THE 80 HOUR NBC DEFENSE COURSE

CLASS 02-01, 1 - 15 DECEMBER 2000

XVIII Airborne Corps and Fort Bragg

NBC Defense School

Given at Fort Bragg, North Carolina 28310



JESSE E. DANIELS

COL, CM

Corps Chemical Officer

URKUNDE

- Luftlandebrigade 26 -



PFC MICHAEL A. LUDWIG

032-52-3247

hat die Bedingungen für das
Fallschirmspringerabzeichen
der Bundeswehr / Leistungsstufe I
erfüllt .

Schlenker

Schlenker
Oberst

Fort Bragg, NC

This day 08.12.01



NORTH CAROLINA NATIONAL GUARD



This is to certify that

SPC MICHAEL A. LUGWIG

has successfully completed

COMBAT LIFESAVER TRAINING

15-18 APRIL 2002

Donna J. Weaver

DONNA J. WEAVER, CPT, AN, NCARNG

Course Director

18 APRIL 2002



HEADQUARTERS 139TH REGIMENT (COMBAT ARMS)

This is to certify that

SPECIALIST MICHAEL A. LUDWIG

has successfully completed

19K10/20-Armor Crewman (M1/M1A1) (Reclassification)- Phase 1

2 September 2003 - 13 September 2003

CRS: 171-19K10 (M1/M1A1) (R) - Phase 1

CLASS: M01-03

79 Hours

Given under my hand
in the city of Fort Bragg, NC
This 13th Day of September 2003

Baron G. Hignite
BARON G. HIGNITE
COL, IN, NCARNG
Regimental Commander



154th REGIMENT

Combat Arms Training Company



CERTIFICATE OF TRAINING

This is to certify that

SPC MICHAEL A. LUDWIG

032-52-3247

has successfully completed

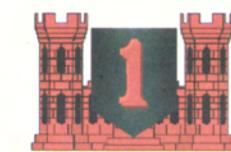
TATS M1/M1A1 Armor Crewman

19K Phase 2, MOSQ Reclassification

28 September - 12 October 2003

Given at Combat Arms Training Company
Camp Shelby, Mississippi


DON DUBOSE
MSG, MSARNG
Chief Instructor



C E R T I F I C A T E O F R E C O G N I T I O N

This is to certify that



SPC Michael A. Ludwig

*has supported the Global War on Terror
by meritorious service in*

Task Force Danger

*during Operation Iraqi Freedom,
and is thereby entitled to wear the*

Shoulder Sleeve Insignia - Former Wartime Service

of the

187 Infantry Division



CORY N. McCARTY

Command Sergeant Major, U.S. Army
Command Sergeant Major

6 June 2004

JOHN R. S. BATISTE
Major General, U.S. Army
Commanding General





DEPARTMENT OF THE ARMY

CERTIFICATE OF TRAINING

For

SPC MICHAEL A. LUDWIG

who has successfully completed

**SIX HOURS OF ARMY SUBSTANCE ABUSE PROGRAM(ASAP)
GIVEN BY FORT BRAGG AND XVIII AIRBORNE CORPS ALCOHOL
AND DRUG ABUSE PREVENTION AND CONTROL PROGRAM**

Given at Fort Bragg, North Carolina

4 October 2004

Patricia A. Rolleri

**ASAP Education Branch
Substance Abuse Instructor**



DEPARTMENT OF THE ARMY

THIS IS TO CERTIFY THAT THE SECRETARY OF THE ARMY HAS AWARDED
THE ARMY COMMENDATION MEDAL

TO **SPECIALIST MICHAEL LUDWIG**
CHARLIE COMPANY 1ST BATTALION 252ND ARMOR

FOR MERITORIOUS SERVICE WHILE SERVING AS A MEMBER OF THE 30TH BRIGADE COMBAT TEAM. YOUR DEDICATION TO DUTY, SELFLESS SERVICE, AND PERFORMANCE UNDER AUSTERE CONDITIONS DURING OPERATION IRAQI FREEDOM II BRINGS GREAT CREDIT UPON YOURSELF, THE 30TH BRIGADE COMBAT TEAM, AND THE UNITED STATES ARMY.

FROM: 29 FEBRUARY 2004 TO 28 FEBRUARY 2005

GIVEN UNDER MY HAND IN THE CITY OF WASHINGTON
THIS 1ST DAY OF JUNE 2005

PERMANENT ORDER 327 (58) 22 NOVEMBER 2004
COMMANDER, 30TH BRIGADE COMBAT TEAM (ARMOR)
OPERATION IRAQI FREEDOM II, KIRKUSH, IRAQ



Danny H. Hickman

DANNY H. HICKMAN
BRIGADIER GENERAL
COMMANDING

CENTRAL CAROLINA COMMUNITY COLLEGE

SANFORD, NORTH CAROLINA

THIS CERTIFIES THAT
MICHAEL LUDWIG

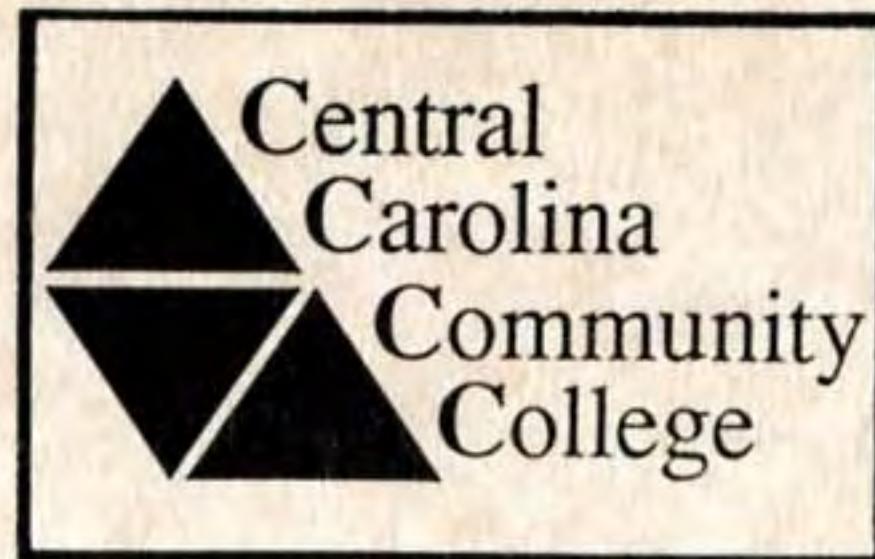
has successfully completed the Course of Study as prescribed
by this College and is hereby granted this Certificate in

Fiber Optics: LAN

In witness whereof, we affix our signatures

February 11, 2001

DATE



Matthew S. Danutt
EXECUTIVE VICE PRESIDENT

Marcia R. Joyner
PRESIDENT

CENTRAL CAROLINA COMMUNITY COLLEGE

SANFORD, NORTH CAROLINA

THIS CERTIFIES THAT

MICHAEL A. LUDWIG

has successfully completed the Course of Study as prescribed
by this College and is hereby granted this Certificate in

Fiber Optics: OSP

In witness whereof, we affix our signatures

March 4, 2001

DATE



Matthew S. Garrett
EXECUTIVE VICE PRESIDENT

Marvin Q. Dwyer
PRESIDENT

CENTRAL CAROLINA COMMUNITY COLLEGE

SANFORD, NORTH CAROLINA

THIS CERTIFIES THAT
MICHAEL LUDWIG

has successfully completed the Course of Study as prescribed
by this College and is hereby granted this Certificate in

LAN: Copper

In witness whereof, we affix our signatures

March 18, 2001

DATE



Matthew S. Gandy
EXECUTIVE VICE PRESIDENT

Marvin R. Dwyer
PRESIDENT

CENTRAL CAROLINA COMMUNITY COLLEGE

SANFORD, NORTH CAROLINA

THIS CERTIFIES THAT

MICHAEL A. LUDWIG

has successfully completed the Course of Study as prescribed
by this College and is hereby granted this Certificate in

Station Installation & Repair

In witness whereof, we affix our signatures

April 15, 2001

DATE



Matthew S. Garrett
EXECUTIVE VICE PRESIDENT

Mervin R. Dwyer
PRESIDENT

The designation of

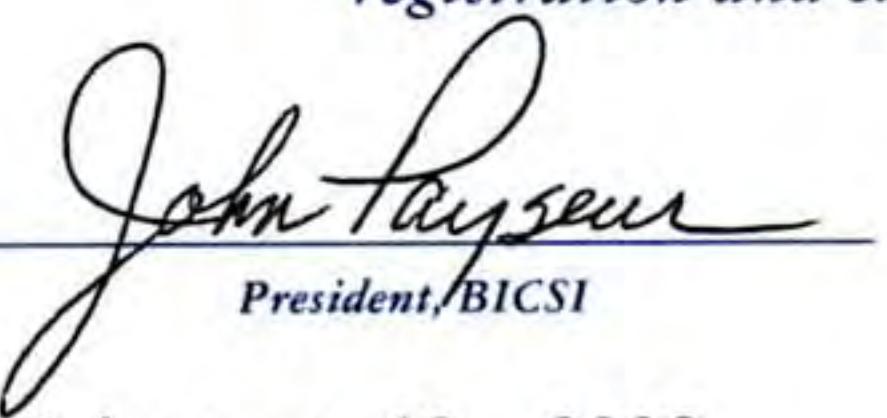
REGISTERED CABLING INSTALLATION

INSTALLER, LEVEL 1

is awarded to

MICHAEL A. LUDWIG

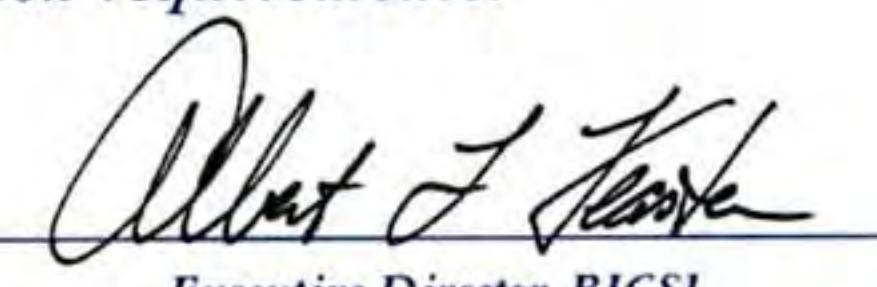
*by BICSI®, A Telecommunications Association,
in recognition of having successfully completed BICSI's
registration and examination requirements.*



John Payson
President, BICSI

February 13, 2002

Issued



Albat J. Kasten
Executive Director, BICSI

February 13, 2004

Expires



Central Carolina Community College

Sanford, North Carolina

hereby confers upon

Michael Andrew Ludwig

having completed in a satisfactory manner the studies required for
Telecommunications Installation and Maintenance

is hereby declared a graduate, and the Board of Trustees upon the
recommendation of the Faculty has granted this

Certificate

In testimony whereof the undersigned, by authority vested in them,
have hereunto affixed their signatures.

Given at Sanford, North Carolina, this first day of August, two thousand and two.

Rand W. Church Jr.

Chairman of the Board of Trustees



Mark R. Lyke

President of the College

Central Carolina Community College

Sanford, North Carolina

hereby confers upon

Michael Andrew Ludwig

having completed in a satisfactory manner the studies required for

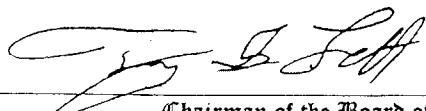
Hardware Troubleshooting Repair

is hereby declared a graduate, and the Board of Trustees upon the
recommendation of the Faculty has granted this

Certificate

In testimony whereof the undersigned, by authority vested in them,
have hereunto affixed their signatures.

Given at Sanford, North Carolina, this thirteenth day of May two thousand and four



G. B. Loff
Chairman of the Board of Trustees



Michael A. Ludwig
President of the College

Central Carolina Community College

Sanford, North Carolina

Hereby confers upon

Michael Andrew Ludwig

Having completed in a satisfactory manner the studies required for

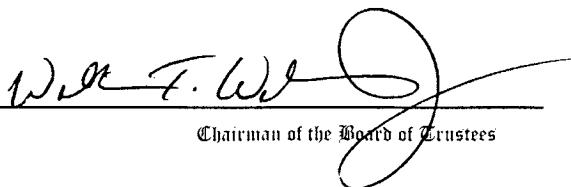
Network Infrastructure

Is hereby declared a graduate, and the Board of Trustees upon the
Recommendation of the Faculty has granted this

Certificate

In testimony whereof the undersigned, by authority vested in them,
Have hereunto affixed their signatures.

Given at Sanford, North Carolina, this eleventh day of May two thousand and six


W. F. W.
Chairman of the Board of Trustees




Matthew S. Garnett

President of the College

Central Carolina Community College

Sanford, North Carolina

Hereby confers upon

Michael Andrew Ludwig

Having completed in a satisfactory manner the studies required for

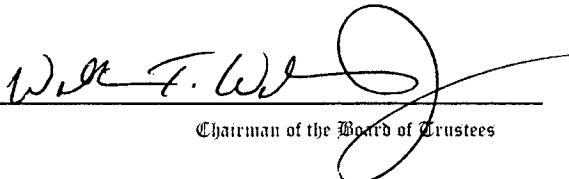
Microsoft Windows

Is hereby declared a graduate, and the Board of Trustees upon the
Recommendation of the Faculty has granted this

Certificate

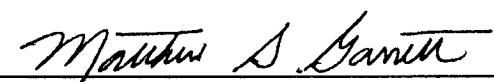
In testimony whereof the undersigned, by authority vested in them,
Have hereunto affixed their signatures.

Given at Sanford, North Carolina, this eleventh day of May two thousand and six


W. F. W.

Chairman of the Board of Trustees




Martin S. Garnett

President of the College

Central Carolina Community College

Sanford, North Carolina

Hereby confers upon

Michael Andrew Ludwig

Having completed in a satisfactory manner the studies required for

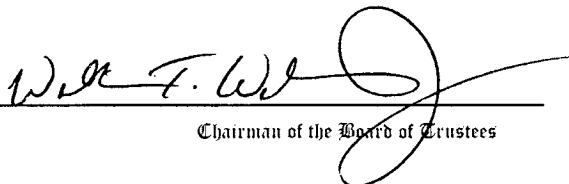
Cisco Router

Is hereby declared a graduate, and the Board of Trustees upon the
Recommendation of the Faculty has granted this

Certificate

In testimony whereof the undersigned, by authority vested in them,
Have hereunto affixed their signatures.

Given at Sanford, North Carolina, this eleventh day of May two thousand and six



Chairman of the Board of Trustees



President of the College

Central Carolina Community College

Sanford, North Carolina

Hereby confers upon

Michael Andrew Ludwig

Having completed in a satisfactory manner the studies required for

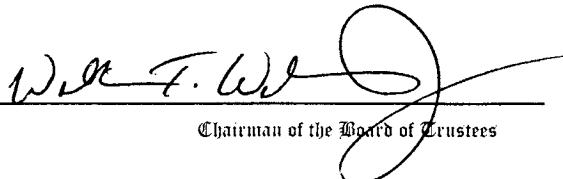
Network Operating Systems

Is hereby declared a graduate, and the Board of Trustees upon the
Recommendation of the Faculty has granted this

Certificate

In testimony whereof the undersigned, by authority vested in them,
Have hereunto affixed their signatures.

Given at Sanford, North Carolina, this eleventh day of May two thousand and six


W. M. F. W.

Chairman of the Board of Trustees




Matthew S. Ganter

President of the College

Central Carolina Community College

Sanford, North Carolina



hereby confers upon

Michael Andrew Ludwig

the degree of

Diploma

Telecommunications - Installation/Maintenance

together with all of the rights, privileges and honors appertaining thereto in
consideration of the satisfactory completion of the course prescribed by
the Faculty and the Board of Trustees.

In testimony whereof the undersigned, by authority vested in them,
have hereunto affixed their signatures.

Eleventh Day of May, Two Thousand and Six

William T. Wilson Jr.

Chairman, Board of Trustees



Matthew S. Garrett

President of the College

Central Carolina Community College

Sanford, North Carolina



hereby confers upon

Michael Andrew Ludwig

the degree of

Diploma

Network Administration and Support

together with all of the rights, privileges and honors appertaining thereto in
consideration of the satisfactory completion of the course prescribed by
the Faculty and the Board of Trustees.

In testimony whereof the undersigned, by authority vested in them,
have hereunto affixed their signatures.

Eleventh Day of May, Two Thousand and Six

William T. Wilson Jr.

Chairman, Board of Trustees



Matthew S. Garcia

President of the College

Central Carolina Community College

Sanford, North Carolina



hereby confers upon

Michael Andrew Ludwig

the degree of

Associate in Applied Science

Network Administration and Support

together with all of the rights, privileges and honors appertaining thereto in
consideration of the satisfactory completion of the course prescribed by
the Faculty and the Board of Trustees.

In testimony whereof the undersigned, by authority vested in them,
have hereunto affixed their signatures.

Eleventh Day of May, Two Thousand and Six

William T. Wilson Jr.

Chairman, Board of Trustees



Matthew S. Garner

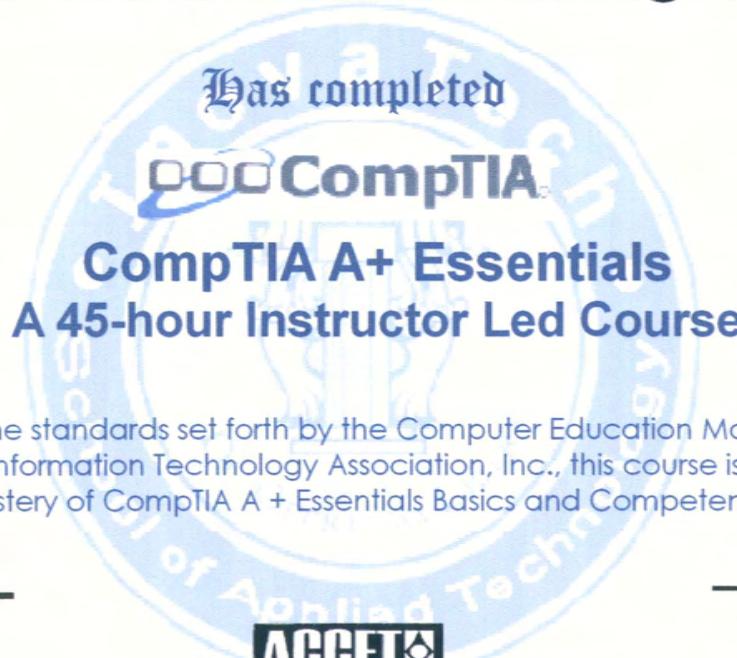
President of the College

InovaTech

College of Business & Technology

This is to certify

Michael A. Ludwig



In accordance with the standards set forth by the Computer Education Management Association (CCEdMA) and the Information Technology Association, Inc., this course is designed to measure mastery of CompTIA A + Essentials Basics and Competencies.

August 10, 2007

Date

David Kuehne
Instructor

ACCREDITED INSTITUTION OF HIGHER LEARNING



*A+® Certified Professional
IT Technician*

This certifies that:

Michael Ludwig

has successfully completed the requirements to be recognized as a:
CompTIA A+ Certified Professional

COMP001006429773

Career ID Number

August 31, 2007

Date Certified

A handwritten signature in black ink that reads "John Venator".

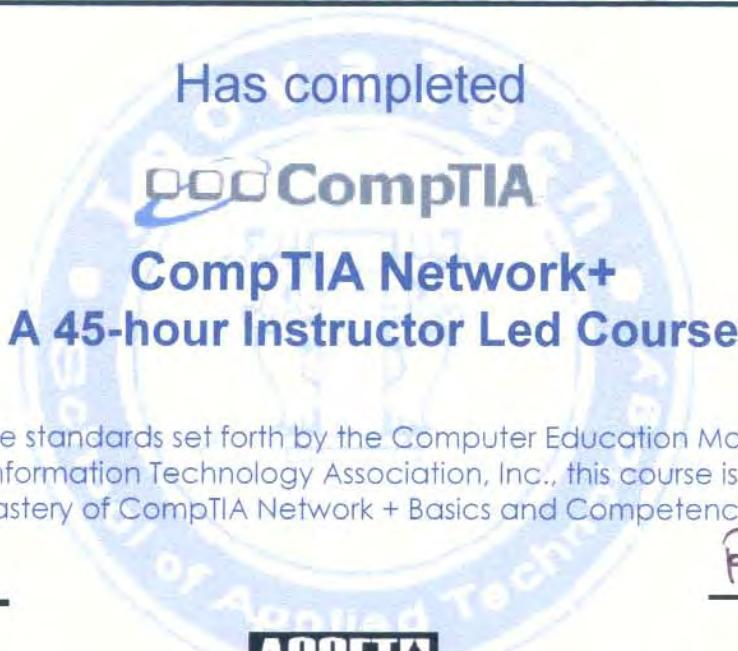
John Venator, President/CEO

This certification exam will be current through December 2009

InovaTech

College of Business & Technology

This is to certify
Michael A. Ludwig



In accordance with the standards set forth by the Computer Education Management Association (CCEdMA) and the Information Technology Association, Inc., this course is designed to measure mastery of CompTIA Network + Basics and Competencies.

July 18, 2008

Date



ACCREDITED INSTITUTION OF HIGHER LEARNING

Ronald Shaw

Ronald Shaw
Instructor



Network+® Certified Professional!

This certifies that:

Michael Ludwig

has successfully completed the requirements to be recognized as a:
CompTIA Network+ Certified Professional

COMP001006429773

Career ID Number

July 18, 2008

Date Certified

A handwritten signature of John Venator.

John Venator, President/CEO

This certification exam will be current through December 2008

THE COMPUTING TECHNOLOGY INDUSTRY ASSOCIATION



EXCELLENCE @ EMC

CONGRATULATIONS

Michael Ludwig

Has earned the following **BRONZE AWARD****Bronze Award for Customer Service**

Mike has gone the extra mile to provide complete support to the Manufacturing site in Apex, NC. Whether it was the Printer Optimization Project or the Refresh of Floor PC's and Laptops or the SAP preparation, rollout and ongoing support, Mike supplied what was needed on time and with a professional attitude. Recently Mike was made a full time employee at EMC and I am sure will have a great career.

Nominated by

Charles Michener

Awarded on

20 Jul 2012



CONGRATULATIONS

Michael Ludwig

Has earned the following **CAUSE FOR APPLAUSE AWARD**

top notch IT support

I like to nominate both Mike Ludwig and Chuck Michener for their roles in supporting and keeping out lifeline laptops running. They worked on mine for 3 days and thru extensive troubleshooting and analysis and reconfigurations were able to solve the problem where another IT group did not have a clue. They were great to work with and kept me abreast all the way with their progress. Great job guys.

Nominated by

Paul Cook

Awarded on

22 Jul 2012





CONGRATULATIONS

Michael Ludwig

Has earned the following **CAUSE FOR APPLAUSE AWARD**

IT TCE & Quality

This is to recognize your exceptional TCE performance based on a nomination from Steve Edwards via feedback from Jason Hayes, an Account Executive. Jason's computer crashed which he is heavily dependent on it as a remote employee. You teamed with a colleague to develop a creative solution which required you to be on and off the phone for 5 hours beginning at 5:30 a.m. that saved Jason 5 days!

Nominated by

Richard Boucher

Awarded on

13 May 2013





EXCELLENCE @ EMC

CONGRATULATIONS

Michael Ludwig

Has earned the following CAUSE FOR APPLAUSE AWARD

Apex EOQ support Q4 2012

For your support of End of Quarter activities on-site in our Apex plant on New Year's eve. Recognizing how important EOQ is to EMC's success, you voluntarily stayed until the early morning to support EOQ processing. It's your willingness to make this kind of personal sacrifice that helps EMC achieve success quarter after quarter. Thank you for helping to ensure EMC EOQ activities ran so smoothly.



Nominated by

Joseph Haran

Awarded on

07 Jan 2013



CONGRATULATIONS

Michael A Ludwig



Has earned the following **CAUSE FOR APPLAUSE AWARD**

Exceptional Service Award

Michael brings a sense of confidence to the workplace that becomes invaluable when we find ourselves struggling to overcome IT System/Computer related obstacles. He has provided myself and my team with solutions on quite a few instances and deserves to be recognized. When passing by, he checks in to see if my team or I need anything. He is always smiling and brings enthusiasm to the workplace.

Nominated by

H. Cem Telli

Awarded on

14 Jan 2014



**Apple Certified Associate
Mac Integration 10.8**

Michael A Ludwig

Granted by Apple on May 10, 2013

View all of my credentials at www.apple.com/certification/verify



This is to acknowledge that

Michael Ludwig

has completed the following e-Learning Course

Assessment - UniTy Advanced IT User Training

April 25, 2013