

# Roster of Instructional Staff

## Faculty Information

Name of Institution: **Nashville State Community College**

Name of Academic Program: Architectural Engineering Technology

Academic Terms(s): Fall 2009 and Spring 2010

Date Form Completed: February 11, 2010

1	2	3	4
Name	Courses Taught:	List of Academic Credentials, Qualifications, and Competencies	Other Qualifications
Alex Smiley ( Full-time (Main))	CAD 1200 : Computer Aided Drafting I CAD 1301 : Computer Aided Drafting II CAD 1510 : CAD Final Project ENGT 1150	B.S. Mechanical Engineering: University of Kentucky, 1974 M.S.E.E. Engineering Management: University of Louisville, 1983	Registered Professional Engineer, Tennessee Contract Engineer, various companies, doing Machine Controls/Special Machine Design, 2000-2006 Project Engineer, Teledyne Firth Sterling/Brush Wellman, 1983-1987 Plant Engineer, UniPress Inc., 1988-1993 Specialized Engineering Projects/Owner, Ableco Systems Inc., 1993-2000 Registered Professional Engineer, Kentucky

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ALEX F. SMILEY

2820 Puckett Lane  
Nolensville, TN 37135  
615-395-4360

Technical Training:

B.S.M.E., University of Kentucky, 1974  
Basic Electronics Certificate, Bell & Howell Schools, 1975  
Professional Engineering Registration, 1980  
Master's of Engineering Degree, University of Louisville, 1983  
Robotics Applications Seminar, 1983  
CAD/CAM Systems and Future Trends Seminar, 1983  
Commercial Heating, Ventilating and Air-Conditioning Seminar, 1984  
View Engineering Programming School, 1986  
Reliance Controllers Programming Schools, 1986  
GMF Fanuc Robot Programming and Maintenance Schools, 1989-1991  
Amada NC Programming School, 1996  
SolidWorks CAD Seminar, 2005

Professional Experience:

8/2000 Nashville State Technical Community College Instructor  
to 120 White Bridge Road  
Present Nashville, TN 37219

1. Instructor in various engineering and technical courses.

5/93 Ableco Systems Inc Owner/Manager  
To 310 Old Stone Bridge Road  
8/2000 Goodlettsville, TN 37072

1. Operated a small material handling company that manufactured and sold specialized material handling equipment to general industry.

4/88 Yamaka Manufacturing Corp of America Assistant . Eng. Mgm.  
to 201 Kirby Drive  
5/93 Portland, TN 37148

1. Directly responsible for all plant maintenance and facilities activities.
2. Managed a one million dollar engineering and maintenance budget.
3. Responsible for the daily activities of an fourteen person maintenance department.

1/86  
to  
2/88

Teledyne Firth Sterling  
La Vergne, TN 37086

Project Engineer

1. Designed, purchased and fabricated complete control retrofit system for existing hydraulic press.
2. Wrote software for powdered metal compacting press using Reliance controllers, Xycom operator interface and Vickers electronic proportional valves.
3. Subcontracted a pick & place unit with digital scales and stepper driven table that interfaced with a Reliance controller for closed loop process control and part placement on sintering trays.

8/84  
to  
1/86

S. K. Wellman  
La Vergne, TN 37086

Project Engineer

1. Installed, debugged and wrote software for a brazing paste machine using an Allen Bradley PC.
2. Performed trouble shooting for maintenance on a variety of hydraulic operated machines including control panel diagnosis.

5/82  
to  
5/84

Quality Industries  
La Vergne, TN 37086

Project Engineer

1. Wrote specifications for and co-ordinated set up for an air handling test faculty.
2. Designed and tested commercial kitchen appliances and food service equipment.
3. Performed technical sales function and resolved customer related problems.

3/80  
to  
5/82

Chicago Pneumatic Company  
La Vergne, TN 37086

Senior Product Eng

1. Conducted manufacturing feasibility studies of hydraulic and pneumatic drive systems for automotive service equipment.
2. Redesigned and implemented a tire changer component to improve function and reduce costs by 15%.
3. Designed and co-ordinated the prototype of a new tire changer that reduced product costs by \$50.

7/78  
to  
2/80

Eaton Corporation  
Harrodsburg, KY 40330

Product Engineer

1. Designed and tested heater/air-conditioner packages for the automotive and truck industry.
2. Co-ordinated the design, scheduling, performance testing and tooling for two automotive air conditioning units.
3. Toolled and implemented four plastic parts utilizing different materials and molding techniques.

5/74                    General Electric Company                    Design Engineer  
to                    Appliance Park  
7/78                    Louisville, KY 40225

1. Responsible for design changes to refrigerator components to improve quality and reduce costs.
2. Eliminated an electrical contact failure mode by redesigning the contact housing to save \$75,000 annually in warranty costs.
3. Redesigned three ice maker components to reduce costs by utilizing plastic and powdered metal technology.
4. Graduated from a two year accelerated program in engineering training.

1/73                    General Electric Company                    Engineer  
to                    Miniature Lamp Division  
5/74                    Lexington, KY

1. Responsible for assigned projects to improve manufacturing efficiency and/or maintenance.
2. Organized and documented the wiring schematic information for a production line of cam operated synchronized machines.
3. Designed a mechanism to meter and place a rust inhibitor on automotive headlamps.

1/68                    U. S. Army                    Machinist/Welder  
to  
8/70

1. Designed and fabricated a series of specialized material handling devices.
2. Supervised daily activities of a seven man machine shop.