

Stephen D. Goodman

Comprehensive Resume (December 2012)

I. General

A. Name

Stephen D. Goodman

B. Present rank and department

Professor in Electrical and Computer Engineering Department

C. Degrees held, dates, institution

Georgia Institute of Technology

Bachelor of Science in Physics June 1977

Bachelor of Electrical Engineering June 1979

Master of Science in Electrical Engineering December 1987

Master of Science in Applied Mathematics June 1989

Doctor of Philosophy September 1991

D. Date first employed at West Virginia Tech

August 17, 1991

E. Dates of promotion and rank

Promoted to Professor, August 1997

F. Date of tenure

August 1997

G. Total years of college teaching and professional experience (22.5 years in industry and teaching/administration, excluding graduate school):

6 years Development Engineer for Hewlett-Packard, San Diego

6 years Graduate Teaching Assistant and Research Assistant, Georgia Tech

2 years Assistant Professor, WVU Tech

4 years Associate Professor, WVU Tech

13.5 years Full Professor, WVU Tech

1 year Interim Dean, WVU Tech

1 year Interim Vice President for Academic Affairs, WVU Tech

H. Teaching experience

Assistant Professor at West Virginia Tech August 1991 to August 1993

Associate Professor at West Virginia Tech August 1993 to August 1997

Professor at West Virginia Tech August 1997 to present

I. Non-teaching work experience

1. Development Engineer with the Hewlett-Packard Company in San Diego, California from July 1979 to August 1985.

2. Various consulting jobs with companies such as Eagle Research, Columbia Gas, GTR II, and Pressure Products.

II. Teaching

A. Teaching responsibilities

1. Courses/Labs taught with enrollments

Spring 2012

EE 222 Intro. EE Lab. 11

EE 329 Signals and Systems 2 13

EE 311 Junior Instrumentation Lab 15

Summer 2011
EE 221 Introduction to Electrical Engineering 5

Fall 2012
EE 222 Intro. EE Lab. 9
EE 355/356 Analog Electronics and Lab 10
WVUe 191 First Year Seminar 24

2. Graduate students supervised

N/A

3. Clinical assignments

N/A

B. Counseling and academic advising

I have had about 500 electrical and computer engineering students to advise in their major.

C. Collateral course responsibilities, library acquisitions, etc.

None

D. Laboratory and/or course development

1. Development of new course/lab

2. Updating course/lab content.

a. EE 329 had never been taught before at WVU Tech

b. I had not taught EE 355/356 in 4 years. All new lecture notes and several updates to and a few entirely new labs

E. Teaching aids or methods employed

1. Use of computer technology

a. I have typed notes, tests, finals

2. Distance learning methods

N/A

3. Web applications

N/A

III. Scholarship

A. Extension of training: Short courses, seminars, institutes, reading in current literature, etc.

1. I have read many books and articles this year in the area of energy, economics and climate change

B. Professional societies

1. Membership

I am a member of the IEEE.

2. Participation in activities

C. Consulting work

None during this past year.

D. Publications

None during this past year

E. Research

1. Projects
 - None during this past year
2. Grant proposals
 - None during this past year
3. Master's Projects Supervised
 - a. Naga Lakshmi. G.V., Robot Control Using Neural Network State Estimator, January 2004. (Chair)
 - b. Sharatchandra Medak, Motion Planning for a Two-degree Robot Arm Carrying a Load using Neural Networks, November 2004. (Chair)
 - c. Anuj Malhorta, Neural Network for Distance Determination using Texture Information, 2004. (Chair)
 - d. Saliyan Prashant, A Neural Network Algorithm to Control a One-dimensional Arm with Video Feedback, 2004. (Chair)
 - e. Rajani Kumari Ravilisetty, Control of a Robot Arm with Integrated Visual and Kinetic Sensory Inputs, 2004. (Chair)
 - f. Sugantha Karthik Selvaraj, An Associative Neural Network System for Hand-eye Coordination, April 2004. (Chair)
4. Master's Theses Supervised
 - a. Bangalore Mohan Hemanth Kumar, Wireless Communication for Unmanned Aerial Vehicle, August 2006. (Chair)
5. Master's Theses (examining committee)
 - a. Taoridi A. Ademoye, Trajectory Planning of Multiple Autonomous Systems Using Mixed Integer Linear Programming, June 2006.
 - b. Jaswanth Chittooru, Image Processing for Machine Vision, August 2005.
 - c. Vamsi K. Paruchuri, Hybrid Modeling and Analysis of Electric Power System, June 2005.
 - d. Santosh Kumar Dasika, Diagonal Recurrent Neural Network based Online Modeling and Control of Circulating Fluidized Bed, July 2005.
 - e. Srinivasa C. Valaboju, Real-time Modeling of a Complex Dynamical Nonlinear System: Circulating Fluidized Bed, January 2005.
 - f. Suman Babu Pulluri, Online Modeling of Cold Flow Circulating Fluidized Bed with Wavelet Networks, January 2005.
 - g. Tamal Biswas, Modeling and Analysis of Discrete Event Behaviors in Power System Using Petri Nets, June 2004.
 - h. Amol Patankar, Modeling of a Circulating Fluidized Bed using Neural Networks, April 2002.
 - i. Sampath Yerramalla, Nonlinear Modeling of a Polymer Electrolyte Membrane Fuel Cell as a Distributed Power Generator, February 2002.
 - j. Praveen Koduru, Neural Network Modeling and Control of a Cold Flow Circulating Fluidized Bed, July 2002.
- F. Licensing
 - I am a licensed PE in the state of WV.
- G. Short courses, seminars, etc., which you conducted
 - None during this past year
- H. Inventions, copyrights, etc.
 - None during this past year

IV. Service

A. Committee assignments

1. Committees on which you presently serve
 - a. Search Committee (chair) for a ECE faculty member (Spring 2012)
 - b. Search Committee (chair) for the Dean of the LCNCES
 - c. Chair of Faculty Assembly
 - d. Faculty Status Committee

2. Summary of activity level

Most committee meetings were at least an hour and many over an hour and a half. Most of these committees had five to ten meetings each semester.

3. Meeting attendance/time spent

I attend every single meeting scheduled except for a very few conflicts.

B. Offices held in professional societies

C. Student recruitment

1. Creative Capers – June – 2012 (five days)

I taught a class of grade school and middle school “campers” on science. I had them build motors and rockets. (See Attachments)

2. Camp STEM – June – 2012 (four days)

I taught a class of grade school and middle school “campers” on science. I had them build motors, generators, and digital circuits.

3. Library Presentations – Six (6) presentations at different locations of the Kanawha County Library System (building motors). (See Attachments)

4. SREB workshops on developing career/technical courses on energy – two separate trips to Morgantown and Fairmont to brainstorm ideas for possible courses and course content for the SREB. (See Attachments)

D. Special assignments

E. Sponsorship of student organizations

F. Administrative duties

Chair of the Department of Electrical and Computer Engineering since August 2006.

1. A department chair at WVU Tech is a faculty member who is given a course release, a small stipend, an extended contract to cover summer classes and advising, and a lot of responsibility.

2. I have performed faculty evaluations, established teaching assignments, oversaw the departmental budget, organized industrial advisory committee meetings, worked through ABET processes, attended College Council meetings, etc.

G. Community service

1. Creative Capers – June – 2012 (five days)

Like Camp STEM, I taught a class of grade school and middle school “campers” on science. I had them build motors and rockets

2. Library Presentations – Six presentations at different locations of the Kanawha County Library System on electricity (building motors). (See Attachments)