

Baird Soules

EDUCATION

MSEE, Union College, Schenectady, NY (June 1983) Concentration: Communications
Advisor: Yu Chang, Ph.D. (completed simultaneously with BSEE)

BSEE, Union College, Schenectady, NY (March 1983)

Associate's Degree in Engineering, Berkshire Community College, Pittsfield, Mass.
(1981)

ACADEMIC EXPERIENCE

2016 – present **University of Massachusetts Amherst**, Senior Lecturer and Director of Experiential Learning, Department of Electrical and Computer Engineering, full-time. This position includes the management of M5, the Electrical and Computer Engineering (ECE) academic makerspace.

2008 – 2016 **University of Massachusetts Amherst**, Senior Lecturer, Undergraduate Program Director and Director of M5, the ECE academic makerspace, full-time.

1992 – 2008 **University of Massachusetts Amherst**, Senior Lecturer and Undergraduate Program Director, Department of Electrical and Computer Engineering, full-time.

1990 – 1992 **University of Massachusetts Amherst**, Lecturer and Undergraduate Program Director, Department of Electrical and Computer Engineering, full-time.

1986 – 1992 **University of Massachusetts Amherst**, Undergraduate Program Coordinator, Department of Electrical and Computer Engineering, full-time.

NON-ACADEMIC EXPERIENCE

June 1983 – July 1986 Advanced Engineer in Product Design - **Polaroid Corporation**,

Cambridge, Massachusetts, Design of instant color video printers for industrial and commercial markets, full-time

September 1981 – June 1983 Research Laboratory Assistant - **Union College**, Department of Mechanical Engineering, [Metal] Fatigue Testing Laboratory, Schenectady, New York. (General Electric sponsored research), Design and operation of microcomputer-based control and data logging system in a high-temperature metal fatigue testing laboratory, part-time

PROFESSIONAL ORGANIZATION

IEEE

HONORS AND AWARDS

Outstanding Electrical and Computer Engineering Faculty Member, 1996. Presented by the UMass Student Branch of the IEEE and the UMass Chapter of the Eta Kappa Nu Electrical and Computer Engineering Honor Society.

Ingvar V. Ingvarsson Prize. Union College, Schenectady, New York. Given annually to the “senior of the highest scholastic standing in electrical engineering” 1983.

William C. White Memorial Scholarship, Union College, Schenectady, New York., Nominated by the faculty of the Department of Electrical Engineering to one student annually, for demonstrating “inventive and creative thinking in the field of electronics.” 1982.

Tau Beta Pi Engineering Honor Society, 1982 Eta Kappa Nu Electrical and Computer Engineering Honor Society, 1982

Freshman Mathematics Award, 1980

SERVICE ACTIVITIES

Supervisory role in **Circuits and Code**, an electronics and computer technology showcase for the academic community as well as members of the public. A special emphasis is placed on bringing in school children to see technology up close and interact with the students who created the projects. This showcase of solo and group

projects demonstrates in a concrete manner that one can be creative in the application of science and technology (April and December).

Invited presentation on the **Arduino Open Source Single Board Computer** at the monthly meeting of the Springfield, Mass. Section of the IEEE, August 2012

SERVICE – ON-CAMPUS COMMITTEES

ECE Instructional Development Committee (Curriculum Committee) M5 Faculty
Steering Committee

Microcontroller workshop for youth, Los Angeles, 2015, 2016, 2017