

# Yale Patt <sup>[1]</sup>

Ernest Cockrell, Jr. Centennial Chair in Engineering

Dr. Yale Patt is a Professor in the Department of Electrical & Computer Engineering at The University of Texas at Austin, and holds the Ernest Cockrell, Jr. Centennial Chair in Engineering. He also holds the title of University Distinguished Teaching Professor. Prof. Patt was elected to the National Academy of Engineering in 2014, among the highest professional distinctions bestowed upon an engineer.

He earned his B.S. at Northeastern University and his M.S. and Ph.D. at Stanford University, all in electrical engineering. He has received a number of awards for his research and teaching, most notably the highest honor in his specialty computer architecture, the 1996 IEEE/ACM Eckert-Mauchly Award, "for important contributions to instruction level parallelism and superscalar processor design," and the highest honor in computer science education, the 2000 ACM Karl V. Karlstrom Outstanding Educator Award. Among the other awards he has received are the 1995 IEEE Emmanuel R. Piore Medal, the 1999 IEEE W.W. McDowell Award, the 2005 IEEE Charles Babbage Award, the 2011 IEEE B. Ramakrishna Rau Award (inaugural recipient), "for significant contributions and inspiring leadership in the microarchitecture community with respect to teaching, mentoring, research, and service," and the 2013 IEEE Computer Society Harry H. Goode Memorial Award. At The University of Texas at Austin, he has been recognized with the Texas Exes Teaching Award for 2002, and the Dads' Association Teaching Fellowship Award for Fall 2002.

Professor Patt has been a professor of electrical engineering and the Ernest Cockrell, Jr. Centennial Chair in Engineering at The University of Texas since 1999. Before that, he taught at Cornell (1966-67), served in the U.S. Army during the height of the Vietnam War (1967-69), and taught at North Carolina State University (1969-1976), San Francisco State University (1976-1988), the University of California-Berkeley (1979-1988), and the University of Michigan (1988-1999). He has also consulted extensively, including long stints each with DEC, NCR, Motorola, and Intel.

He has published more than 100 refereed papers and has won four best paper awards. His only textbook (so far) is "Intro to Computing Systems: from bits and gates to C and beyond" (co-authored with his former student Professor Sanjay Patel), published by McGraw-Hill in 2000 (2nd edition, 2004, and 3rd edition in progress), and adopted already by more than 100 universities worldwide. It revolutionizes how computing is introduced to serious freshmen. He has supervised 26 completed Ph.D. dissertations, and does not remember how many M.S. theses. He currently supervises 8 graduate students.

Above everything else he does as a professor, Yale Patt loves teaching. At The University of Texas he introduced a new required freshman course, Intro to Computing (EE 306) in Fall 2000, and has taught it every other fall semester to 400+ freshmen. He also teaches his graduate specialty in Microarchitecture (EE 382N) every other spring, and the senior

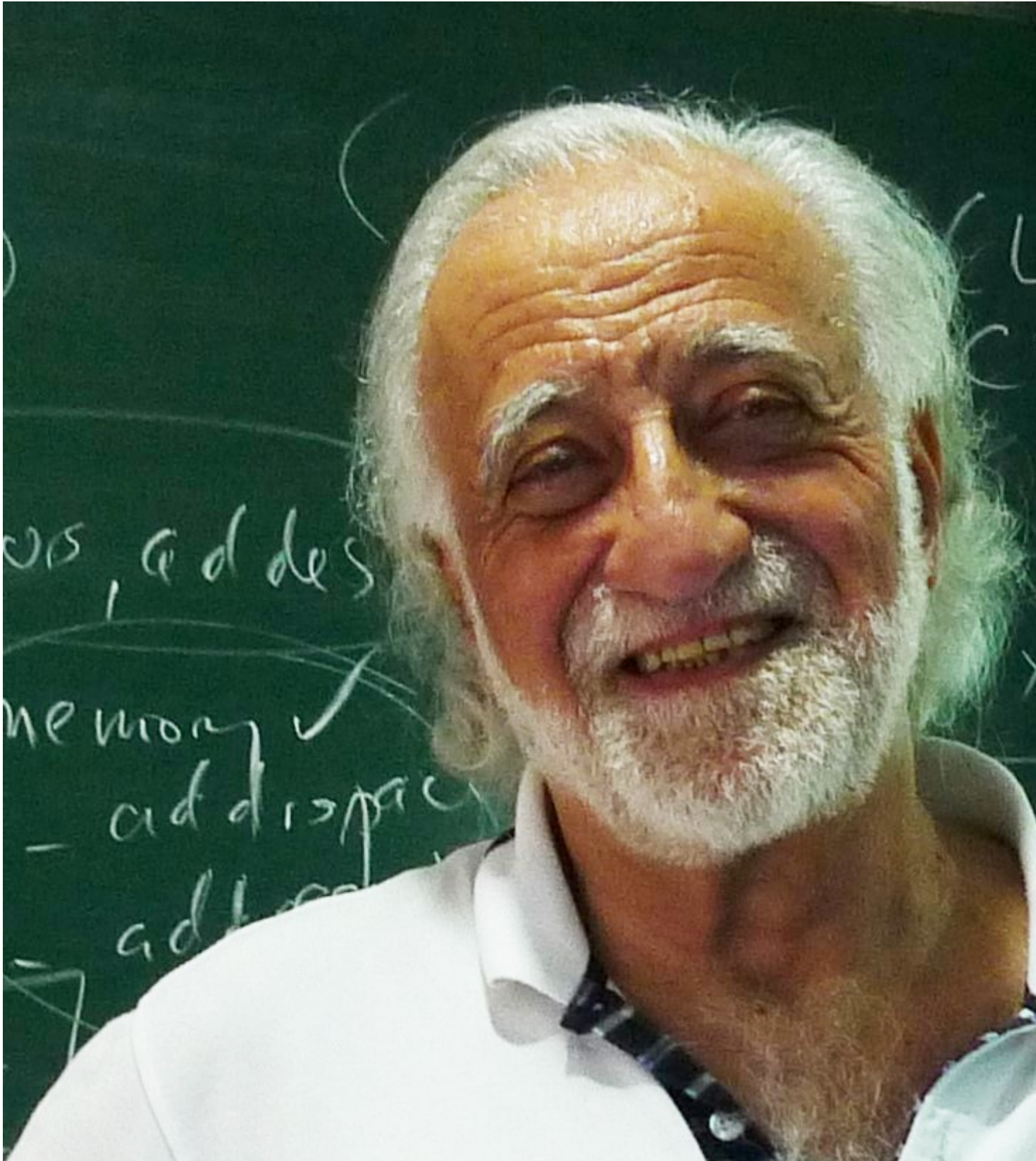
computer architecture course (EE 460N) whenever they let him.

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## Research Groups:

[High Performance Substrate/High Performance Systems](#) [5]

## Faculty Position:

Professor

## Research Areas:

[Architecture, Computer Systems, and Embedded Systems \(ACSES\)](#) [6]

## Graduate Studies Committee Member:

Yes

## Chair:

No

## User Account:

[pattyn](#) [7]



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