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Dr. Alhalabi's primary research focus is on the development of pragmatic industrial and educational systems. Research interests include Embedded Systems, Web-based Remote Controls, Distributed and Mobile Computing, and Distance Education & Remote Labs. Currently, he is developing smart health-care devices to improve general health life especially for autistic children.

He conducted sponsored research and has over 65 publications in IEEE and other institutions journals and conference proceedings. For his research, he created Data Acquisition & Control and Embedded Systems graduate courses with hands-on labs. He Co-founded the CADET research center in 1999, and has been directing it. His currently active research activities include medical innovations and ocean energy prognostics and monitoring technologies.

Dr. Alhalabi has a special interest in developing special- and general-purpose hardware labs for grad and undergrad Computer Engineering curriculum. Currently he is the supervisor of Logic Design and Microcomputer Laboratories. He has established state-of-the-art Senior Project and Embedded Systems Laboratories and took a leading role in the creation of the Engineering Capstone Design courses.

Through his private company, Dr. Alhalabi has been consulting for local companies as well as individual inventors and investors. He works on various project stages: feasibility study, hardware and software specification and design, system architecture and integration, prototypes and proof of concepts, and production.

Dr. Alhalabi received a BS and an MS in electrical engineering from Ohio University and Purdue University, respectively, and an MS and a PhD in computer engineering from the University of Louisiana at Lafayette.

He holds a US patent and others are pending. He is a member of 7 professional organizations and 6 honor and special recognition societies. Dr. Alhalabi has received 16 academic awards such as Most Outstanding Professor of the Year 2007 at Florida Atlantic University. He has been included in "Outstanding People of the 20th Century", The International Biographical Center of Cambridge, England.