

AWR HELPS STUDENTS TO UNDERSTAND REAL-WORLD MICROWAVE DESIGN CONCEPTS INTUITIVELY

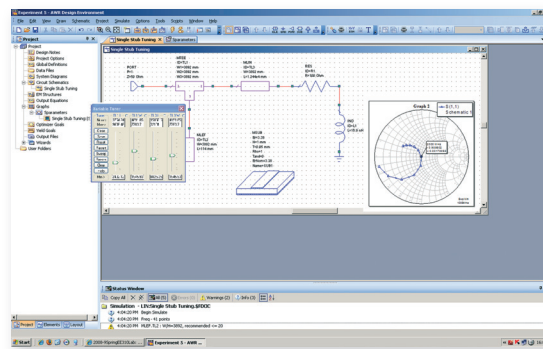
UNIVERSITY BACKGROUND

Atilim University was founded in 1997 through the Atilim Foundation with a mission to establish a learning institution that develops individuals with the capability of attaining and putting to use the universal information required in the age of technology. The University's Electrical and Electronics Engineering Department has hundreds of undergraduate and graduate students enrolled and it is eager to adopt the necessary knowledge to contribute to science and technology both at the national and international level and to help society in adapting new approaches and innovations.

FROM THEORY TO FABRICATION

The Electrical and Electronics (EE) Engineering students at Atilim University – both for graduate and undergraduate level degrees - attend a semester long RF and Microwave Engineering course. The aim of the course is to prepare the students for the sequence of follow-on course work and ultimately for their future careers in the field of RF and microwave engineering. The curriculum for the RF and Microwave Engineering course is structured so as to strike a balance between theory and laboratory exercises - specifically modeling, design and simulation of microwave components through the use of AWR's Microwave Office, Visual System Simulator and AXIEM software. Additionally, students are required to fabricate the resultant circuits using the university PCB prototyping system as well as validate the end product performance with measurements in the lab.

The result is success for the students and the university. "We chose AWR RF/microwave design tools for this course because of its user-friendly design environment. It makes it easy for students to start designing actual circuits based on the theory first learned in the classroom. We also know that AWR models are accurate as we witness first hand good correlation between AWR predicted simulation results and the measurements of the fabricated circuits. The combination of theory, hands-on simulation exercise and physical prototype production has shown the students that theory and real-world applications can and should agree!"



A single-stub transmission line impedance matching network in Microwave Office is one of the basic exercises in the course.



**ATILIM
ÜNİVERSİTESİ**

Course:

Microwave/RF
Circuit Design

Application:

PCB Design

AWR Software:

Microwave Office™

AXIEM®

Visual System Simulator™

"AWR software quickly and intuitively helps students to understand the correlation between real-world applications and the theories that they have learned in the classroom."



*Dr. Elif Aydin
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University of Atilim*