



CASE STUDY /

## **Ansys + Florida International University**

Providing Multidisciplinary Training at Florida International University with an Ansys Academic Multiphysics Campus-Wide Solution

*"Ansys' Academic Multiphysics Campus-Wide Solution provides the engineering departments at FIU access to many of Ansys' top simulation tools with ease. Not having to manage many licenses across various departments allows our faculty to focus on teaching and research instead of managing or locating individual licenses. The Campus-Wide license has also made it significantly easier to provide both undergraduate and graduate students with simulation and multidisciplinary training. In FIU's College of Engineering and Computing, for example, we graduate more than 300 Ansys- trained engineers each year"*

**Dr. Stavros Georgakopoulos**

Professor / FIU, Department of Electrical and Computer Engineering

Simulation is incredibly important to teach in universities at all levels, undergraduate to graduate, for two main reasons. First, professors can use simulation as a tool to reinforce concepts taught in textbooks, enhancing a student's training, learning and understanding. Second, providing students with simulation skills prepares them for the workforce and makes them more attractive to future employers. At Florida International University (FIU), having an Ansys Academic Multiphysics Campus-Wide license makes it easier for all engineering departments to utilize simulation quickly and easily.



Figure 1: Florida International University's Engineering Center.

electromagnetics, mechanical, thermal, etc. Without software covering all physics, we cannot effectively provide students with multidisciplinary training and properly prepare them for the challenges they will meet in the world.

## / TECHNOLOGY USED

- Ansys Academic Multiphysics Campus-Wide Solution

## / ENGINEERING SOLUTION

At FIU, we have an Ansys Campus-Wide license that provides us with the majority of Ansys' top tools in a single package. With this license, we have the flexibility of providing simulation tools to all relevant departments across the university so they don't have to manage their own individual licenses or go through the hassle of locating the license they need in another department. This removes logistics challenges and allows us to focus on usage.

## / BENEFITS

Having a centralized license has made it simpler for both educators and students to access Ansys tools by eliminating the inconvenience of managing licenses across various departments and labs. Multidisciplinary training also has been easier to implement with this license. For example, a project between electrical and mechanical engineering students in designing a foldable antenna using various Ansys software solutions was possible with the Multiphysics Campus-Wide bundle since it includes software covering all physics. Providing students with this type of multidisciplinary training using industry tools will greatly benefit them when searching for a future career.

## / CHALLENGES

We have many engineering departments covering various disciplines (mechanical, electrical, biomedical, etc.) at FIU. Providing the right access to the simulation tools needed for all those departments can be logistically challenging. Also, in both teaching and research, we are solving Multiphysics problems. When I go into class, I want the ability to show the students the constraints from all aspects, whether that be

## / COMPANY DESCRIPTION

Dr. Stavros Georgakopoulos is a professor at Florida International University in the Department of Electrical and Computer Engineering and the Director of the Transforming Antennas Centers (TAC) and the RFcom Lab. Georgakopoulos started his career as an engineer in the RF/Microwave industry, providing him with experience to effectively equip his students with the skills they need to be effective in their future careers through the curriculum taught in his several courses. As the Director of TAC, Georgakopoulos also leads many large research initiatives with a team of 54 people, ranging from undergraduate students to faculty members.

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