

C++ and Matlab Mex Functions

Due May 27 by 11:59pm **Points** 100 **Submitting** a text entry box

The objective of this assignment is to increase your understanding of how to use C++ with Matlab. You will learn the following principles

1. How to compile C++ code into Matlab executable functions
2. How to attach Visual Studio to Matlab to debug mex functions

Your Assignment

Study the chapter **Using C++ With MATLAB** in the textbook *AutonomousFlight.pdf*. Create and compile a mex function named **AddMatrices**. Use the function in Matlab to add the following two matrices and return the result:

$$\begin{bmatrix} 1 & 2 \\ 3 & 4 \\ 5 & 6 \end{bmatrix} + \begin{bmatrix} 6 & 5 \\ 4 & 3 \\ 2 & 1 \end{bmatrix}$$

What to submit

Demonstrate your working mex function to the instructor to receive credit for this assignment. Copy and paste all your code from each file into the Text Entry box. The instructor should be able to copy and paste your code into Matlab and Visual Studio and run it to check whether it works.

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