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[Matlab](#) also has a very good scope in the automotive domain using Rapid control Prototyping or RCP used extensively in medical, automotive and aerospace domains. Main components / highlights. In the above section, we studied the introduction to Matlab, so now we're going to learn the components of Matlab.

[Introduction to Matlab | Brief Overview of Matlab Programming](#)

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[Simulink](#) is a simulation and model-based design environment for dynamic and embedded systems, integrated with MATLAB. Simulink, also developed by MathWorks, is a data flow graphical programming language tool for modelling, simulating and analyzing multi-domain dynamic systems.

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[next task to consider](#) is the appropriate simulation period. T is defined as the elementary period for a baseband signal, but since we are simulating a passband signal, we have to relate it to a time-period.  $1/R_s$ , that considers at least twice the carrier frequency. For simplicity, we use an integer relation,  $R_s=40/T$ . This relation

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