



Dual Degree
Engineering Dept.

Analysis Of The Use Of Spline Based Interpolation On Digital Elevation Data In Hydrological Modeling Applications



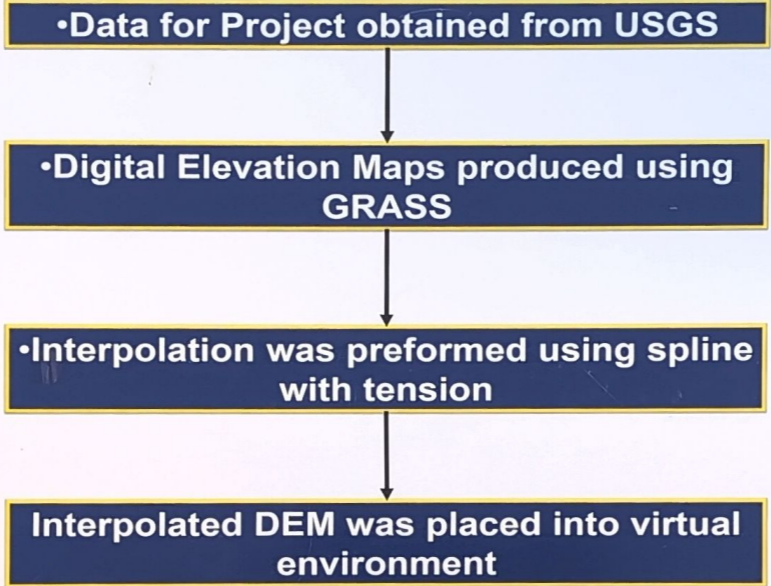
Mr. Clauzell McIntyre, Jr., Mr. Gary Jones, Ms. Traci Murry
Advisors: Dr. O. Olatidoye, Dr. S. Sarathy

DESIGN

Design Objective

The objective of this project is to analyze Digital Elevation maps produced by Spline with tension and place these maps into a virtual environment.

METHODOLGY



DESIGN SOLUTION

- The original Digital Elevation Map(DEM) had poor resolution so interpolation was done.
- The DEM after initial interpolation still had some undesirable areas.
- the final interpolation produced the best DEM.
- The final DEM was inputted into a virtual environment.

RESULTS

DEM Before Interpolation



DEM After Initial Interpolation



DEM After Final Interpolation



Preliminary Conversion into Virtual Environment

