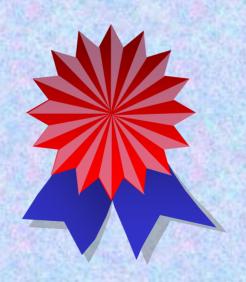
Texas State University-San Marcos
Department of Engineering and Technology

2006 Best Product Development Contest Award



2006 Best team: OSB Transfer Cart

Nathan Massey (team manager)

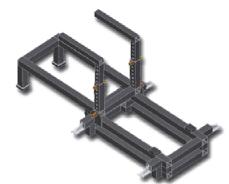
Sheldon Tullos

Brad Gilbert

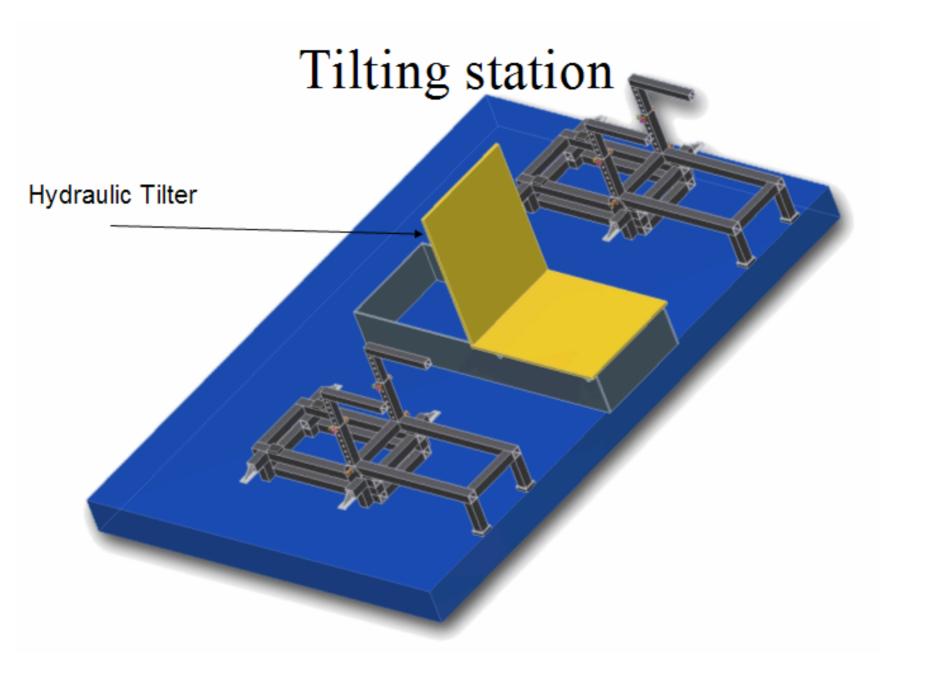


Concept scoring

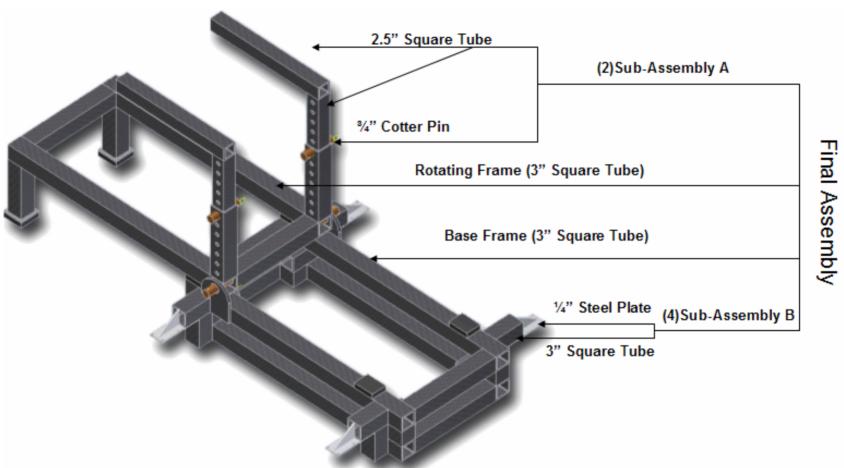




		Gravity Cart		Tilter Cart	
Selection of Criteria	Weight	Rating	Weighted Score	Rating	Weighted Score
Safe to Operate	17%	2	0.34	5	0.85
Adjustable to Material Size	15%	3	0.45	4	0.6
Maintain Product Quality	14%	4	0.56	4	0.56
Strong, Durable and Reliable	14%	2	0.28	5	0.7
Easy to Operate	14%	2	0.28	4	0.56
Easy to Maneuver	13%	2	0.26	3	0.39
Minimum Manual Labor	13%	3	0.39	3	0.39
	Total Score	2.56		4.05 1 Yes	
	Rank 2		2		
	Continue?	No			



Bill of material



Manufacturing and assembly











Testing the final product



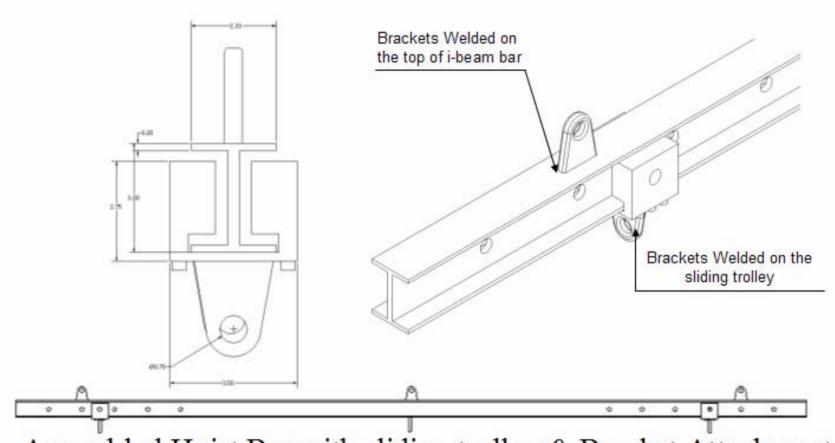
Mission accomplished!



OSB Material Placement Crane



Design



Assembled Hoist Bar with sliding trolley & Bracket Attachment

BOM

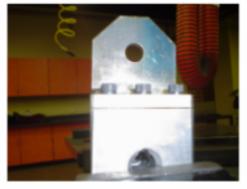


Manufacturing and assembly





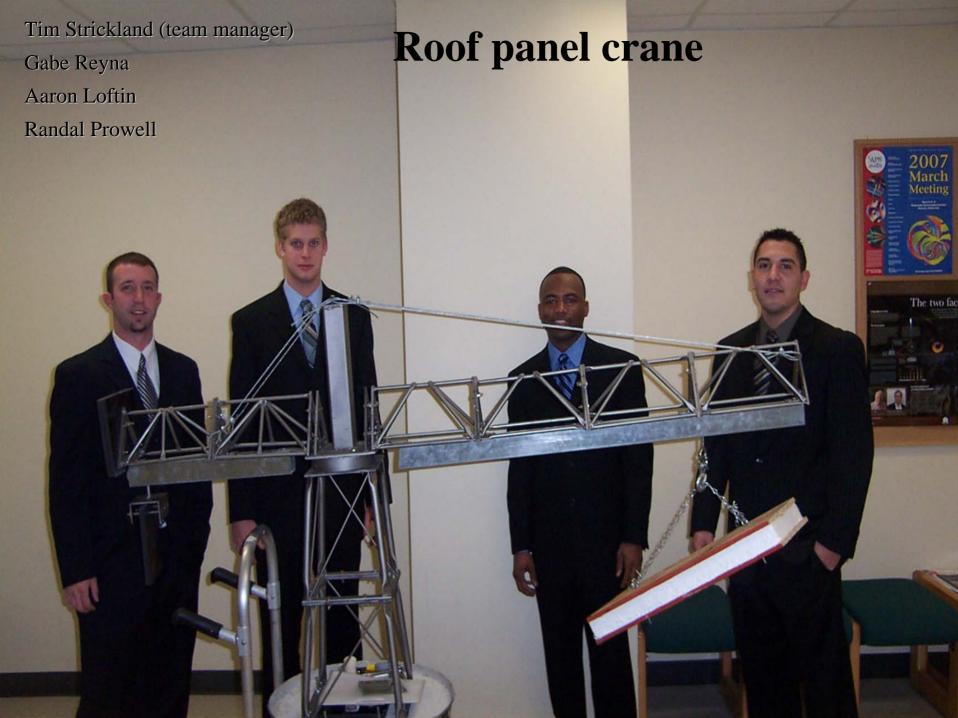






Final prototype test

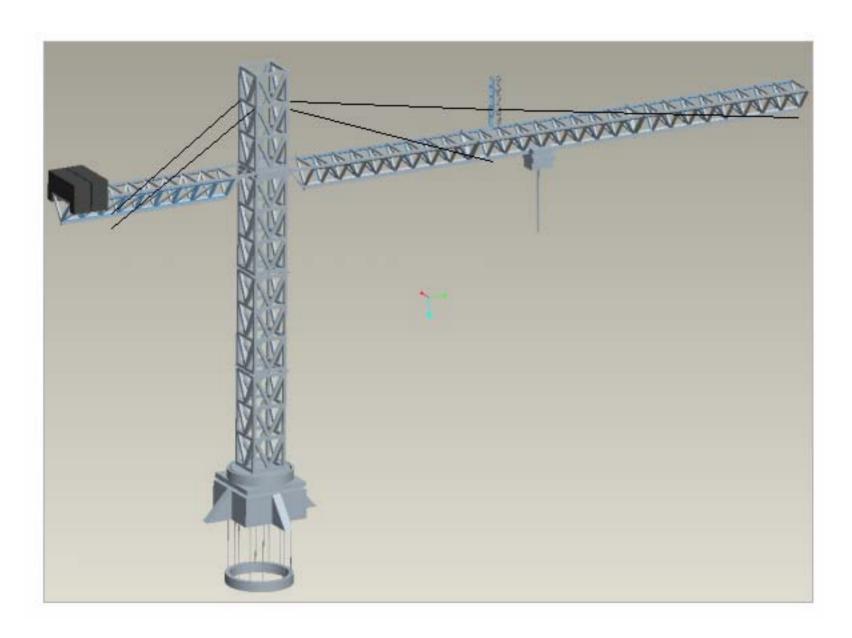




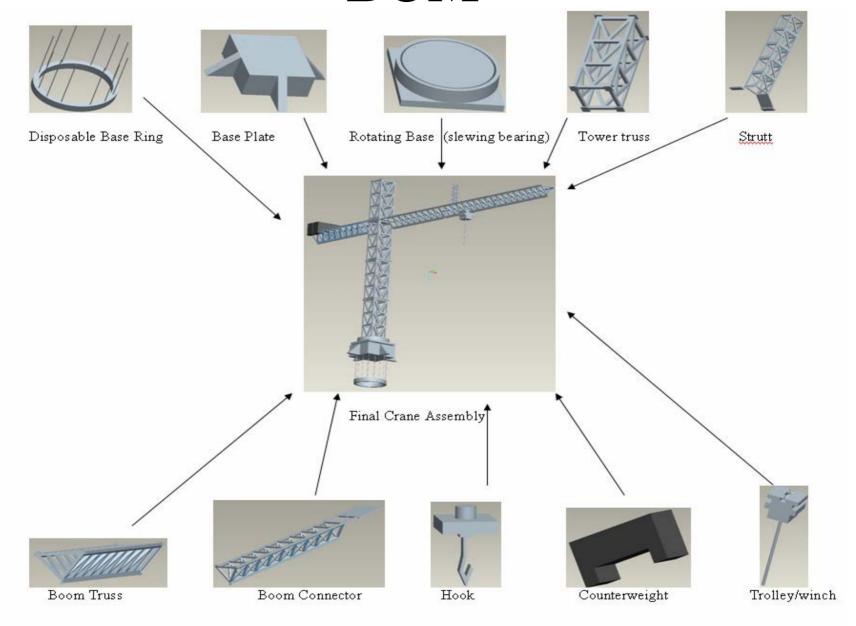
Application



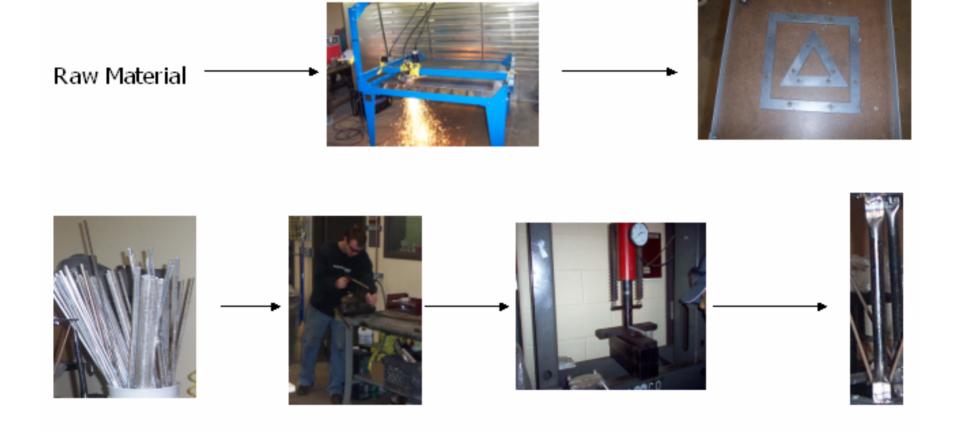
Final Design



BOM



Part 1-Cutting & Forming



Part 2-Fabrication











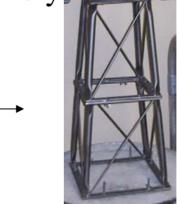






Part 3- Sub-Assembly













Part 4- Assembly



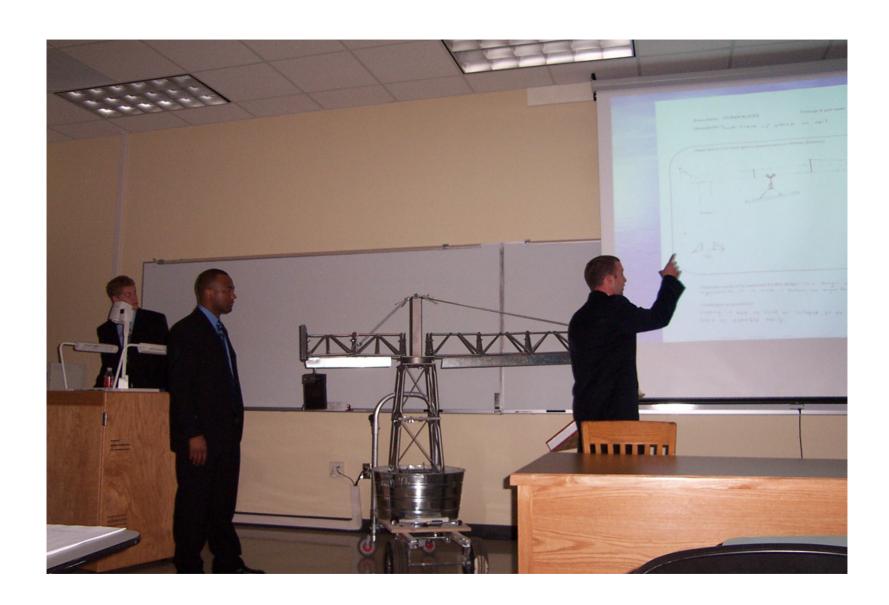












Spline Manufacturing

Nathan Thormeyer

Mike Bautsch

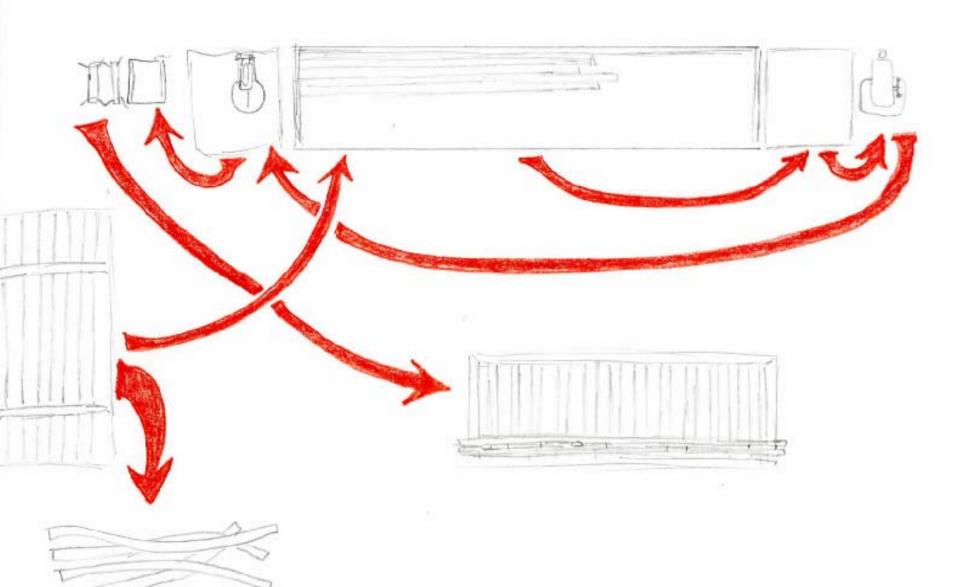
Adam Davidson (team manager)



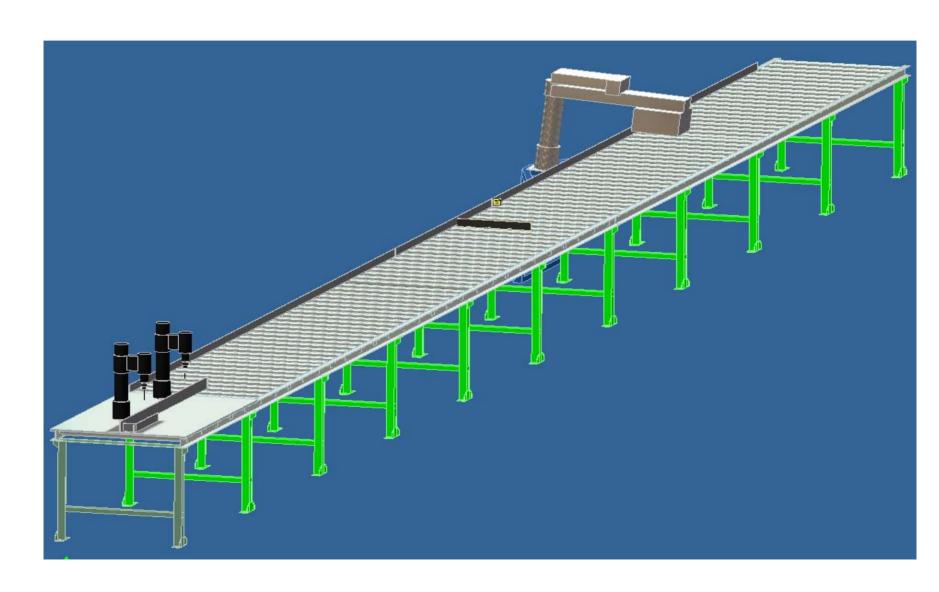
The Current Assembly Process

Project 2: Spline Production

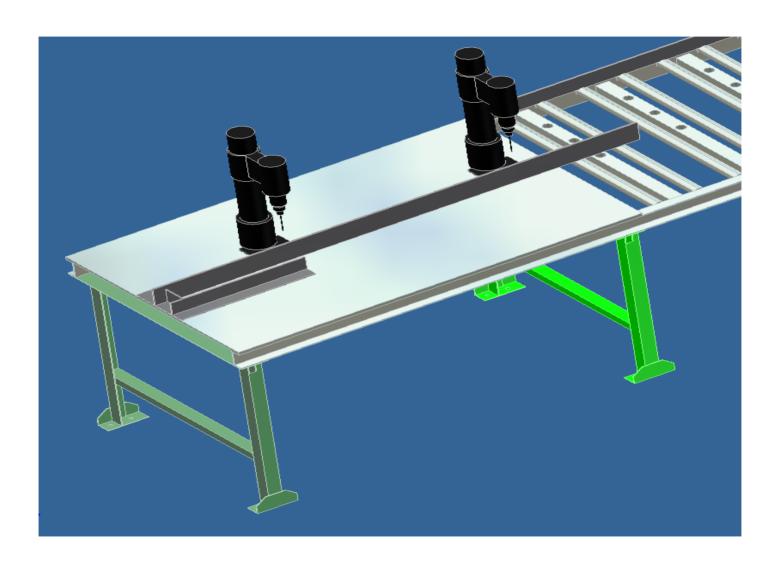
Nathan Thorneyor Michael Bantsch



Final Design



Final Design



Manufacturing and assembly











Cleanup time!







Panel of experts



And the best team is...

