District Name: Loogootee Community Schools

Pathway: Applied Engineering & Advanced Manufacturing Pathway

Team Members:

NAME	ROLE
Shannon Wagler	1st Grade
Jill Toy *Design Team Lead	4th Grade
Megan Jones	MS/HS
Kadye Moore	MS/HS
Bo Gibson	High School
Bill Riley	High School

Course Links:
Applied Engineering & Advanced Manufacturing Courses
Applied Engineering & Advanced Manufacturing Overview

Current and Hopeful Partnerships

Company	Name	Contact Information	Level of Partnership/PBL Partner
Crane, Supervisory Engineer	Larry Lawson	270-952-3108	Guest Speaker
Crane, Engineer	Phillip Smith	812-709-0546	Guest speaker
Crane, Engineer	Andrew Kluesner	812-709-1224	Guest speaker
Crane	Josh Divine	812-296-0074	Guest speaker
Crane, Engineer	Josh Jeffers	812-295-6855	Guest speaker
Midwest Engineering, Civil Engineer	Trey Kidwell	812-295-2800	Guest speaker

Crane, Engineering Technician	Anthony Sergent	812-709-2509	Volunteer robotics coach
Retired Crane engineer	Vickie Williams	vickie lw@hughes.net	Volunteer robotics coach
Loughmiller Machine Tool & Design, owners and machinists	Pam & Jason Loughmiller	812-295-3903	Industry Partner
M & M Electric,, owners	Mark and Mary Fields	812-295-4699	Industry Partner
Jasper Engines, Engineer	Jacob Adams	Jacob.Adams@jasperengines.com	HS Robot Assistant
Purdue University Director of Women in Engineering Program	Dr Beth Holloway	765-494-3889 holloway@purdue.edu	Guest Speaker
Ball State University student and LHS graduate	Sara Bailey	812-709-9112	Computer sciences and physics majors can speak on preparing for the education side of things.
Crane, Engineer	Cassidy(Sutton) Dages		Guest Speaker

K-12 Experiences

Grade Level	Programs / Experiences (Field Trips, Guest speakers)
Kindergarten	• demo from upper elementary robotic event
First Grade	• Engineers in Training - Crane Westgate Academy
Second Grade	• guest speak from field of robotics (Anthony Sergent)
Third Grade	• Loughmiller's Tool and Design
Fourth Grade	• Lion Manufacturing visit

Fifth Grade	• Toyota Tour
Sixth Grade	• Pathway Fair with all pathways (booths with someone who works in the field, and HS students currently in the pathway)
Seventh Grade	• Practical Arts 7 - Exposure to Engineering
Eighth Grade	• Manufacturing Day
High School	• Prepare a tour of Crane and Loughiller's Tool and Design that shows a part from design to manufacturing

K-8 Activities

Grade Level	Activities
Kindergarten	• Code and Go Colby Mouse • Easter Baskets
First Grade	• Colby Coding Mouse • Grinch Sleighs STEM
Second Grade	• Dash-n-Dot • Spaghetti Tower
Third Grade	• Ozobots • Read Twenty-Elephants and build bridges
Fourth Grade	• Lego Mindstorms • Paper Roller Coaster
Fifth Grade	• Ozobots (English Class) • Design and create a 3D Model of a Tiny House for a character in a book (English or PLTW Class)
Sixth Grade	• Magic of Electrons - PLTW • Maker Space
Seventh Grade	• Design a Theme Park based on a novel, play, or short story (English Class) • Dash-n-Dot Xylophone Accessory
Eighth Grade	• Design a new or improve an existing green space within our community (English or Health Class) (Beautiful Communication Board)

	• Project Guts
High School	• Design, create, market, and sell an item (English Class)

Capstone Projects (listed by concentration)

Applied Engineering	• Certification in field • Internship • Use CAD to design a mechanism • Build a useful robot • Rubric
Advanced Manufacturing	• Certification in field • Internship • Use CAD to design a mechanism • Build a useful robot • Rubric

PUTTING IT ALL TOGETHER

LINK TO K-4 ACTIVITIES & SPEAKERS:
https://drive.google.com/drive/folders/1Lyv4IBIpvTZoV2kwUWFQK5SQcBJHLL0g?usp=sharing

LINK TO 5-6 ACTIVITIES & SPEAKERS:
https://drive.google.com/drive/folders/1-P2K-cbPn0NWAskgVQzEDxaXFcgx3_mG?usp=sharing