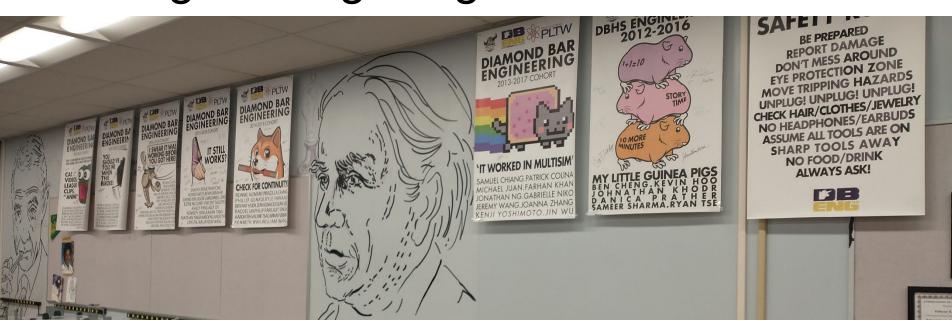


Back to School Night

Engineering Program Presentation



Johnny Hwang

Introduction to Design, Digital Electronics, Principles of Engineering, Engineering Design and Development, AP Biology, Introduction to Robotics



Agenda

- Introduction
- Tips for success: Class Website, Online Textbook, Parent Portal, Communication
- Homework

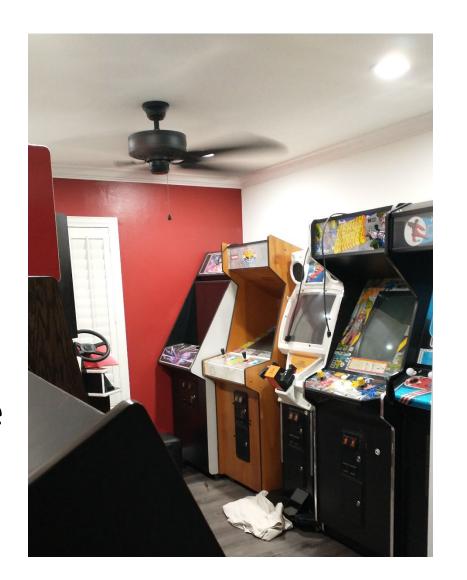


- 25rd year at DBHS
- B.S. in Biology, M.A. in Educational Technology
- Industrial & Technical Education certified
- Past & Present Classes taught:
 - AP Biology, Honors Biology
 Principles of Engineering
 - Chemistry
 - AP Environmental Science
 Engineering Design and
 - Introduction to Robotics
 - Introduction to Engineering Design

- Digital Electronics
- Development



- Self taught electronics hobbyist
- Restoring 80's arcade machines
- Tinkering with computers and engineering ever since I was young







Project Lead the Way (PLTW) is the leading engineering, computer science, and biomedical engineering curriculum provider whose purpose is to introduce engineering and develop homegrown engineers



What PLTW courses do we offer at DBHS?

1

Introduction to Design

2

Principles of Engineering

3

Digital Electronics

4

Engineering Design & Development



Why complete the DB engineering pathway?

1st Year class fulfills the UC "f" Visual Performing Arts requirement

- 2nd Year, 3rd Year, 4th Year classes are UC Honors classes
- College Admission Preference
- Scholarships
- Brahma Tech Diploma (All PLTW classes count)
- PLTW California Student Scholar Recognition (At least 3 classes)
- AP & PLTW Scholar Recognition
- Learn industry standard software



Why complete the DB engineering pathway?









UC San Diego





Carnegie Mellon University

Yale





Use of the class website

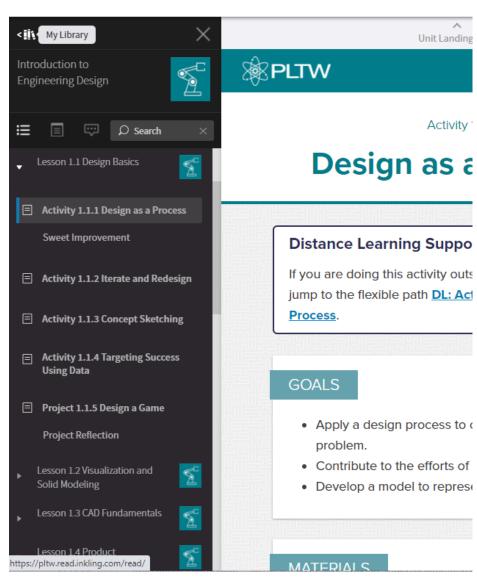
www.mrhwang.com

 Access the class calendar, study tools, assignments for download etc.

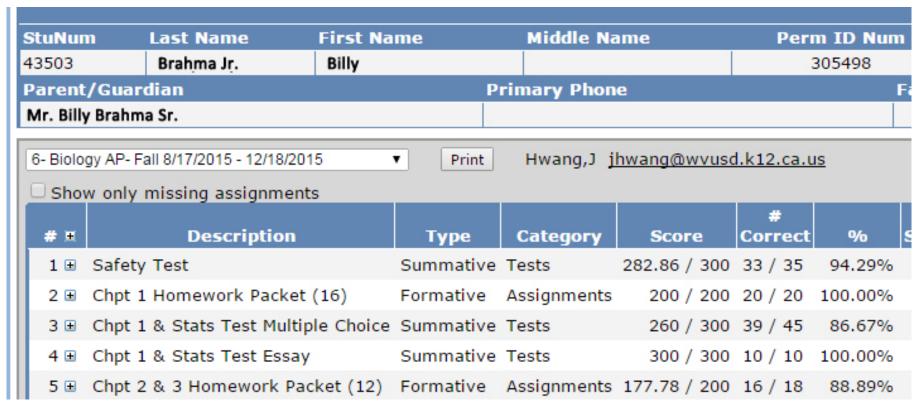




- Our online textbook can be accessed through <u>my.pltw.org</u>
- Some of our software can be accessed or installed at home e.g. NI Multisim, Autodesk Fusion360, Google Docs etc.







Make sure homework is always completed 100%

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	ID Number	Total	Percentage	8/18/14	8/25/14	9/2/14	
1	309582	27	93%	12	12	3	
1	240995	21	72%	14	7	0	
r	310719	16	55%	11	4	1	
_	316550	22	76%	15	5	2	
į	231777	14	48%	9	5	0	
1	231944	25	86%	15	10	0	
	308150	18	62%	13	5	0	
•	251341	28	97%	17	11	0	
]	251074	17	59%	10	6	1 .	
T.	251612	26	90%	16	9	1	#
		Weekly	Averages =	12.9	9.0	0.7	1
	High Total=	29					
	l	_	_				

- Check discussion points weekly
- Students need to answer questions at a 70% clip to get full credit



Per 4 Introduction to Engineering De

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	ID Number	Total	Percentage	1/4/16	1/11/16	1/18/16	1/25/16
	319847	90	100%	5	5	5	5
	304797	70	78%	5	0	0	5
	231775	90	100%	5	5	5	5
	319171	90	100%	5	5	5	5
	305066	85	94%	5	5	5	5
	313261	90	100%	5	5	5	5
	307856	90	100%	5	5	5	5

- Check participation points weekly
- Students should not be below 100%



Communication is the key

Email: jhwang@wvusd.org

Phone: **909-594-1405** x**33201**

Homework

- Make sure Aeries email is updated
- Watch the promotional video for the class your student is enrolled in
- Email me a message saying that you did the BTSN homework with your student's name & class in the subject line to earn extra credit for your student.

