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### DRAFTING TECHNOLOGY CAPSTONE

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*Montana Technological University*

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# DRAFTING TECHNOLOGY CAPSTONE

John Vanek

Faculty Mentor: Rebecca Morris

## Why Drafting?

- *I have always been very detail oriented, and loved drawing as well as the idea of designing things.*
- *I took a Drafting class my sophomore year in high school, and I loved it so much I decided to go to college for it.*

## Program Expectations

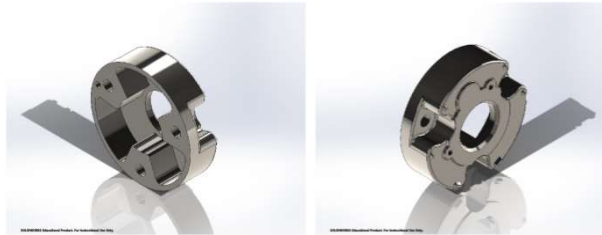
- *Learn how to Draft professionally*
- *Attain jobs upon graduation*
- *Learn how to set up full set of architectural & manufacturing drawings*

## Program Progress

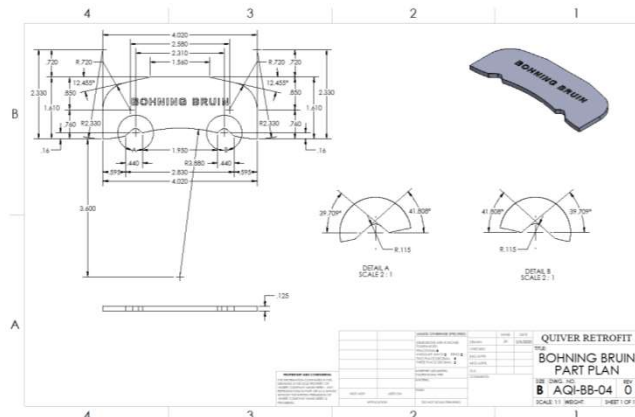
- *Learned Drafting Theory & how to apply to CAD Technology*
- *Learned how to follow the Design Process*
- *Learned the Construction process of building in Residential & Commercial areas*
- *Learned different CAD software for different applications*
- *Learned how to draw in Architectural, Civil, and Manufacturing templates*
- *Received many jobs and different opportunities that I can apply my knowledge to.*

## Project's Result Examples

Stewart Design Demonstration Project  
Engine Motor Part Drawings



LaBreche Manufacturing Design Plans  
Arrow Quiver Retrofit Drawings



David Hood Residential Design Project  
w/ to-scale Balsa Wood Model



## Results Through The Program

- Graduating in April with an Associates of Applied Science degree in Drafting Technologies
- Drafted demonstration drawings and virtual working models of a CPA car part for Jerry Stewart's mechanics class
- Hired to draw manufacturing plans for arrow quiver retrofit by Terry LaBreche, Missoula, MT
- Hired to draft full set of Residential house plans for David Hood, Butte, MT
- Hired to draft full set of Residential house plans for Mike Skiba, Wise River, MT
- Open E&I Drafting-Designer position with WorleyParsons Billings, MT

## Future work

- Finish Hood Residential Design Plans for Construction
- Start Drawing Skiba Residential Design Plans for Construction
- Finish Drawing & Designing arrow quiver retrofit for LaBreche

## Student Profile

I am John Vanek from Columbus, Montana. I have earned the Associate of Applied Science degree in Drafting Technology, from Highlands College of MTEch. I am prepared to seek fulltime employment as a drafter in the architectural, engineering, and construction industries. Presently, I am employed as a contract drafter on various projects. I'm also looking forward to my future adventure enlisting in the U.S. Air Force Reserve.

