

2018

IACT Undergraduate Certificate in Applied Creativity (Year 1 - 2018)

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WHO WE ARE

We are students of all majors channeling the most creative version of ourselves for the common good. We come from all different backgrounds and interests ranging from mechanical engineering, biology, pre-dentistry, psychology, pharmaceutical chemistry, exercise physiology, and communication media production. We are certificate students pursuing the nation's first Undergraduate Certificate in Applied Creativity for Transformation.

WHAT WE DO:

We are students that decided to actionize our purposes by taking bold and innovative leaps. We push forward the notion of the common good through our disciplines of studies. We seek change in the areas of social justice, health and wellness, and education.

HOW WE DO IT:

We seek to redefine what could and what should be — by actively participating in community with one another. We are not afraid to fail forward because that's where the greatest innovation occurs.

WHY WE DO IT:

We do what we do because we are the change that the world has been seeking — and the University of the Common Good calls us to do such.

THE PROCESS



YEAR 1

- > ACT I (UDI 371): Creative Confidence Through Critical Perspective
- > ACT II (UDI 372): Innovative Practice Through Creative Confidence



DECLARING CANDIDACY FOR THE CERTIFICATE

- > Positive progress and authentic curiosity during ACT I
- > Begin exploration of advising and mentoring model





YEAR 2

- > EGR 103: Engineering Innovation
- > SSC 200: Social Science Integrated
- > Pivot Elective

CONTINUING CANDIDACY TOWARDS CERTIFICATE COMPLETION

- > ACT I and II Reflection Sit-Ins
- > Continue Purpose-Based Advising



YEAR 3

- > ACT III (UDI 471): The Creative Design (Collaborate and Design)
- > ACT IV (UDI 472): The Creative Application (Innovate and Implement)

COMPLETION OF CERTIFICATE

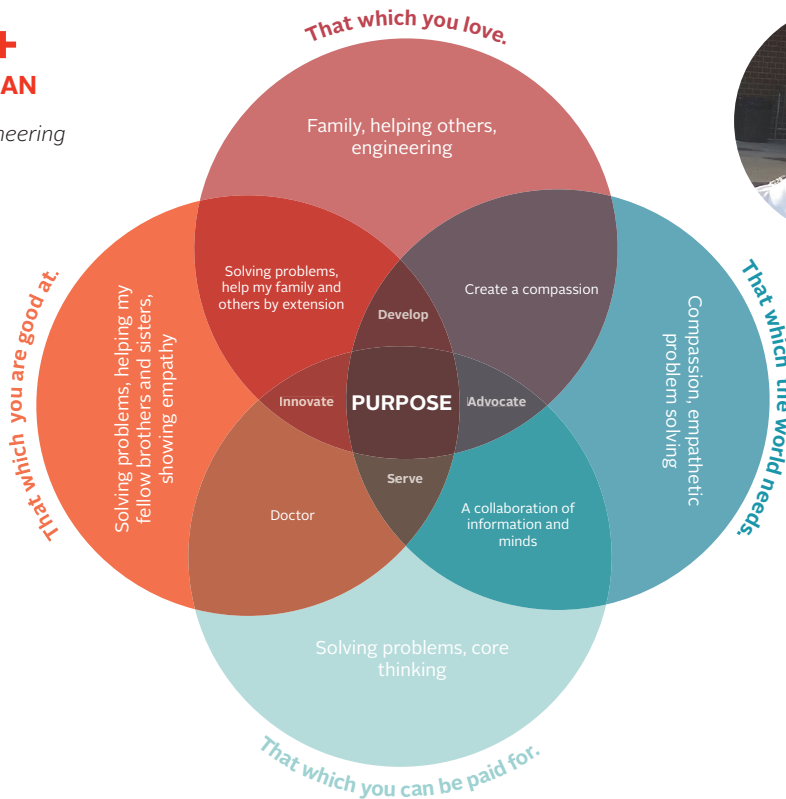
- > Collaborative Collision Development
- > Culminating Collision Showcase

In the two-part cornerstone of ACT III and IV, students put the applied creativity mindset into action with purpose-based and problem-based learning that cultivates marketable ideas and/or experiences to address societal issues across academic disciplines.

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LEWIS FORMAN

Mechanical Engineering



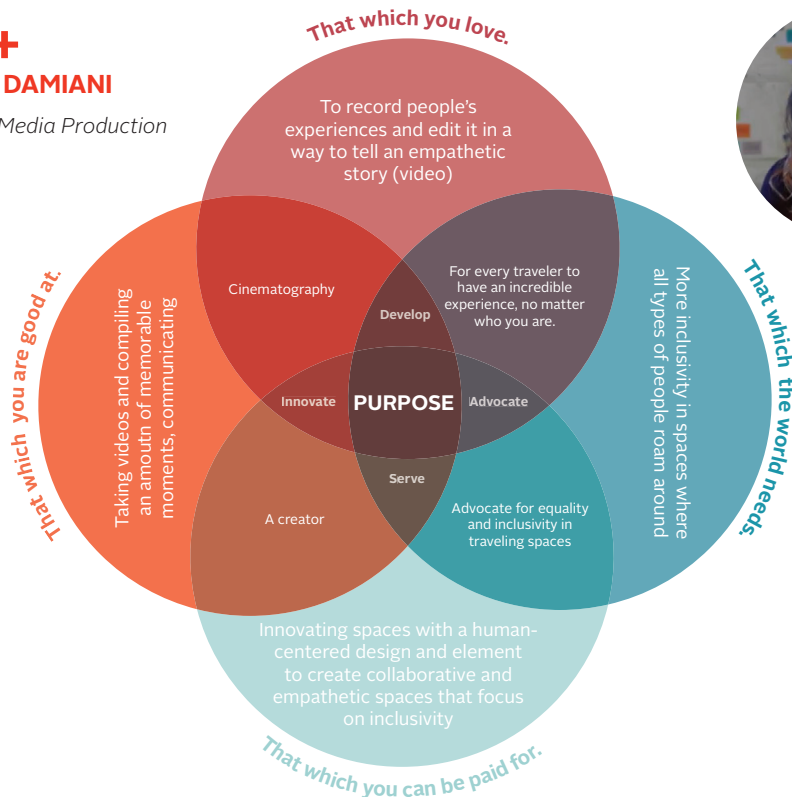
MY PURPOSE: Innovate the everyday lifestyles of individuals on the autism spectrum—by advocating for a more inclusive engineering mindset — through the development of immersive caretaking experiences that serves individuals and their families.

HOW DO WE CREATE AWARENESS FOR THE MINORITY WHILE DESIGNING FOR THE MAJORITY?

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ALEXANDRA DAMIANI

Communication Media Production



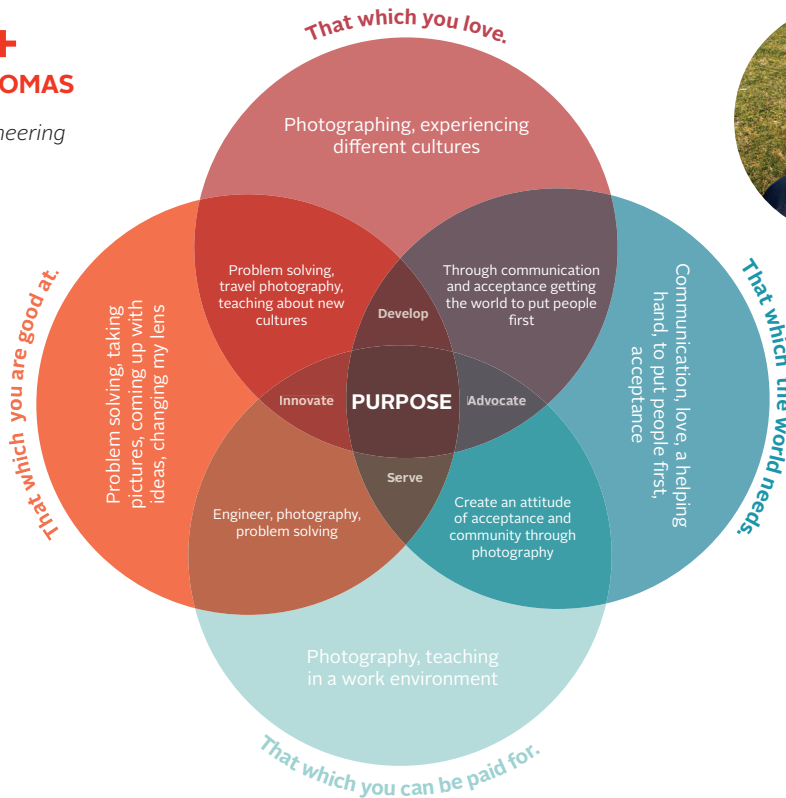
MY PURPOSE: Creating a better traveling experience by innovating communication through development of safe havens on social media platforms with special advocacy to serve travelers with disabilities.

HOW CAN WE ESTABLISH A MORE EMPATHETIC CONNECTION THROUGH SOCIAL MEDIA?

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QUINTON THOMAS

Mechanical Engineering



MY PURPOSE: To use engineering and human rights to innovate environmentally conscious engineering mindsets and practices by developing sustainable environmental solutions that serve and advocate for undeveloped countries.

HOW DO WE USE EMPATHY TO GET PEOPLE TO TAKE ACTION TOWARDS ENVIRONMENTAL PRESERVATION?

INCLUSION

How do we re-engineer public transportation to be more inclusive?

Transdisciplinary Equation



Lewis Forman

How do we create awareness for the minority while designing for the majority?



Alexandra Damiani

How can we establish a more empathetic connection through social media?



Quinton Thomas

How do we use empathy to get people to take action towards environmental preservation?

Collision



We are looking to redesign public transportation for adolescents with autism by changing the physical space, because public transportation lacks the human element.

First Lens "Solution"

A safe space for sensory deprivation that includes color and mood stimulation. This space would have a heart rate monitor that adjusts colors in the room to a person's senses.



Humanity - Centered Analogy



First-class lounge - isolation from the overwhelming sensory input of public transportation
Fit Bit - heart rate monitor, but applied to outside stimuli

Thought Exercise

Imagine if there was an escape from the chaos of public transportation. How might we change the environment and mindsets around public transportation within the system?
The impact could broaden the experiences of autistic adolescents.



HELPING HANDS



HELPING HANDS provides an airport assistance service tailored to the needs of the traveler with autism. Any need that the individual has will be met creating an inclusive and more enjoyable airport experience for them and their families.



THERE IS A GROWING NUMBER OF PEOPLE WITH AUTISM; however airports are not doing an effective job of accommodating them. While airports have services in place, they are not specialized to help those with autism in a way that shifts the responsibility onto the airport rather than the individuals with autism and their families.





In 2015-16, **76.9 MILLION PEOPLE** used O'Hare Airport. Only **161 PARTICIPANTS** with special needs used Chicago-O'Hare's Protective Travel Service.

*-Chicago Business.com and
Bryan Van Rees*



Between 2015 and 2025, **500,000 PERSONS WITH AUTISM** spectrum disorder (ASD) in the United States will enter adulthood.

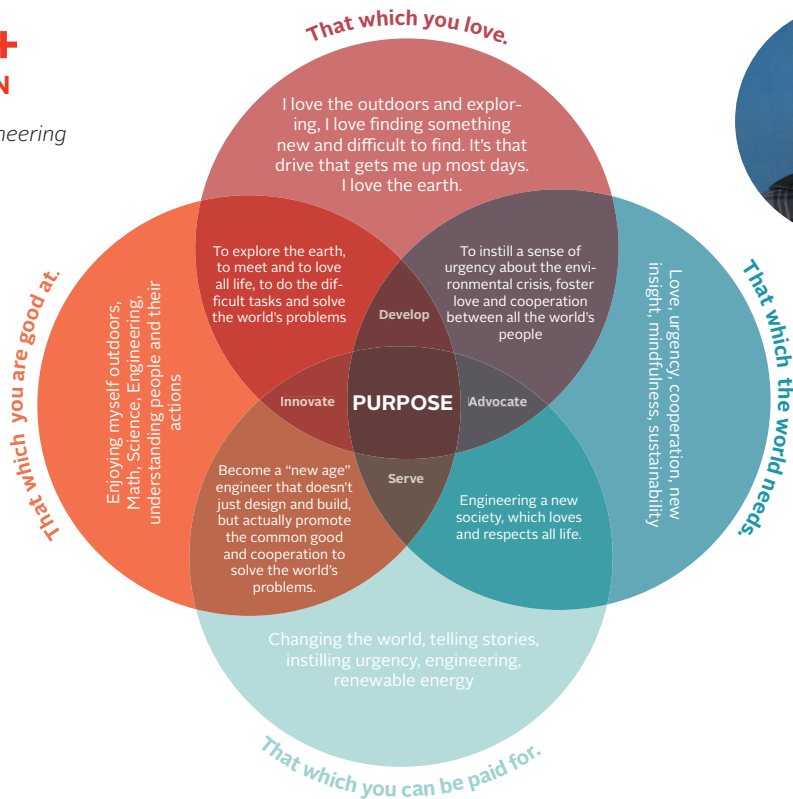
-Transportation Issues of Adults on the Autism Spectrum: Findings from Focus Group Discussions



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COLIN JOERN

Mechanical Engineering



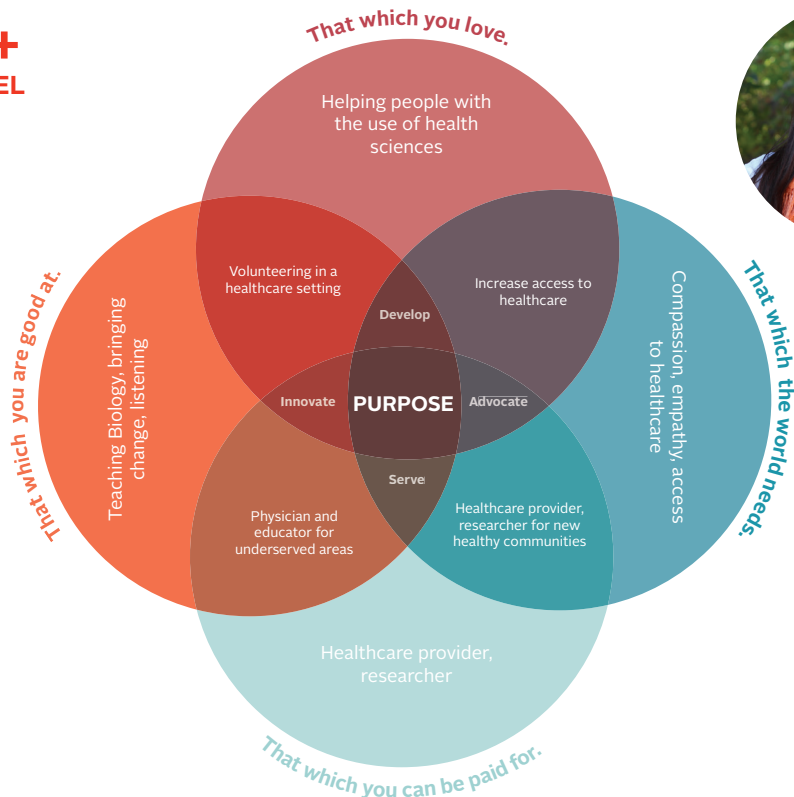
MY PURPOSE: Advocate a new socially conscious society which loves and respects all life by inspiring the development of social justice engineering — that innovates solutions and serves individuals most affected by the current global Environmental Crisis.

HOW DO WE GET PEOPLE TO CARE ABOUT THE ENVIRONMENT AND THOSE AFFECTED?

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KARLY MICHEL

Biology



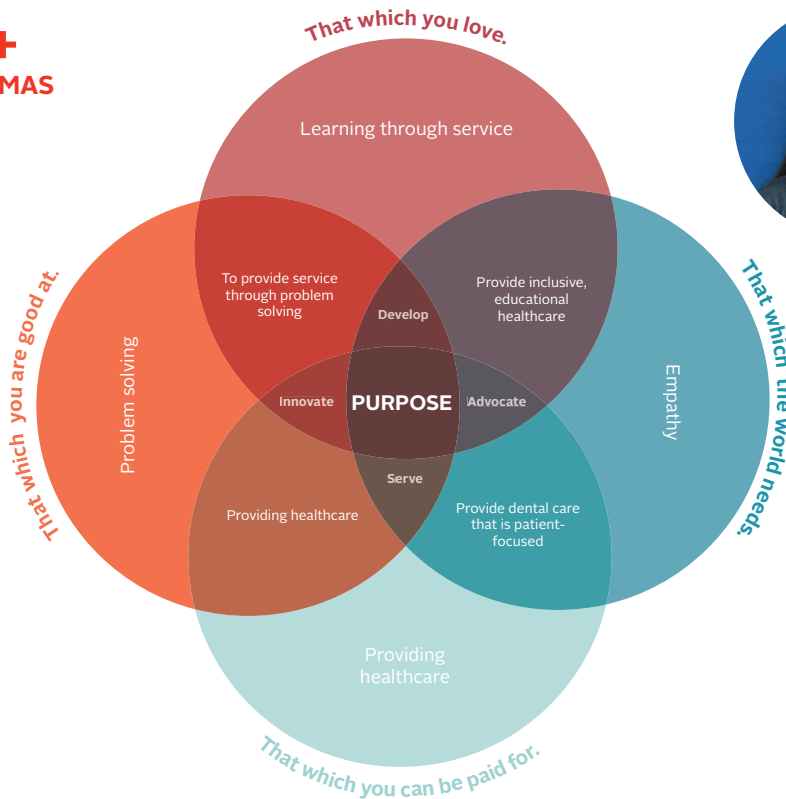
MY PURPOSE: To develop socially conscious dental practices by innovating a new framework of thought through teaching dentist to serve those in Ohio who are living in medically underserved areas and who are lacking an advocate.

HOW DO WE TRAIN NEED-BASED DENTISTS?

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MADDIE THOMAS

Pre-Dental



MY PURPOSE: Develop a preventative dental first aid kit that innovates accessibility in low income areas, by serving (children in) dehumanized populations and advocating for individualized care.

HOW DO WE PROVIDE PREVENTATIVE CARE TO THOSE WHO CAN'T AFFORD IT?

SUSTAINMENT

How do we create a healthy community that can sustain itself?

Transdisciplinary Equation • • • • •



Colin Joern

How do we get people to care about the environment and those affected?



Karly Michel

How do we train need-based dentists?



Maddie Thomas

How do we provide preventative care to those who can't afford it?

• • • • • collision



We are looking to create a sustainable way of life for the current and future generations through implementing new education and tools because there is a need for healthier communities.

First Lens "Solution" • • • • •

Create a program that brings empathetic dentists, sustainability education, and preventative dental kits to underserved populations



• • • • • Humanity - Centered Analogy



Global Brigades with more of a Teach Across America style to create more commitment to a self-sustained community.

• • • • • Thought Exercise

Imagine if every human's wellbeing was cared for.
How might we inspire universal empathy?
The impact could counteract fear through sustainment.





1 IN 4 ADULTS IN LOW INCOME AREAS go without dental care because they cannot afford it or do not have access to a low-cost clinic.



The Dayton metro area ranked ninth in the nation for food hardship with **22.6% OF DAYTON RESIDENTS** facing food hardship.





MOBILE GROCERY STORES AND MOBILE DENTAL CLINICS EXIST SEPARATELY, SO WHY NOT COMBINE THEM?

Alone they do not reach enough people in need, but together we can work to improve both the oral and systemic health of many communities. Without proper nutrition, it is hard for a person's teeth to stay healthy. The target location of Fresh and Floss are those people who lack access to dental care and produce. The food sold in Fresh and Floss is locally sourced for increased sustainability. Fresh and Floss will combine a produce truck with a mobile dental clinic in order to innovate the access to care and proper nutrition.

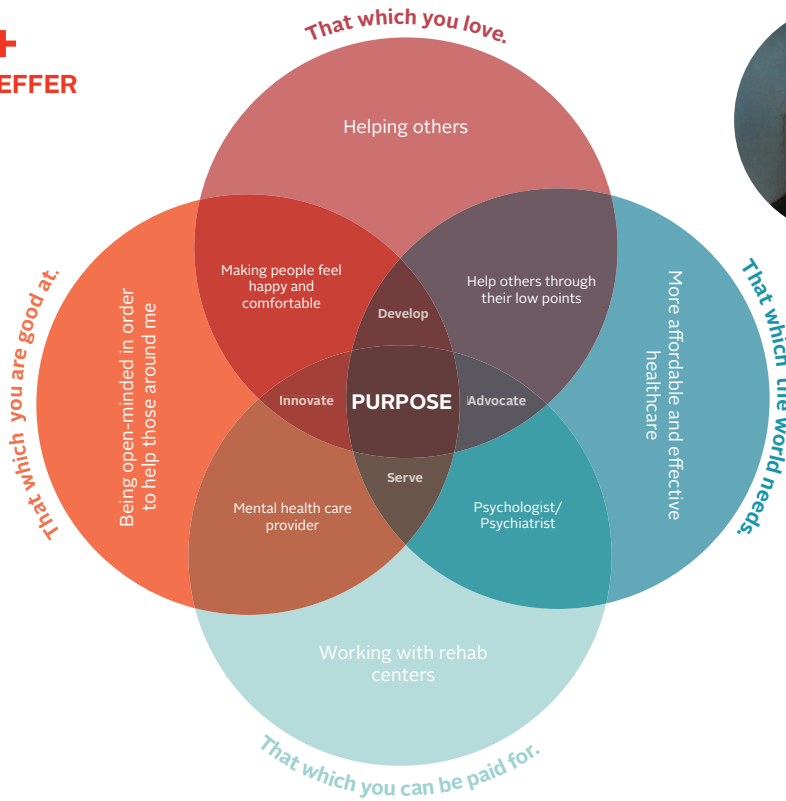


FRESH & FLOSS

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BRITTANY KIEFFER

Psychology



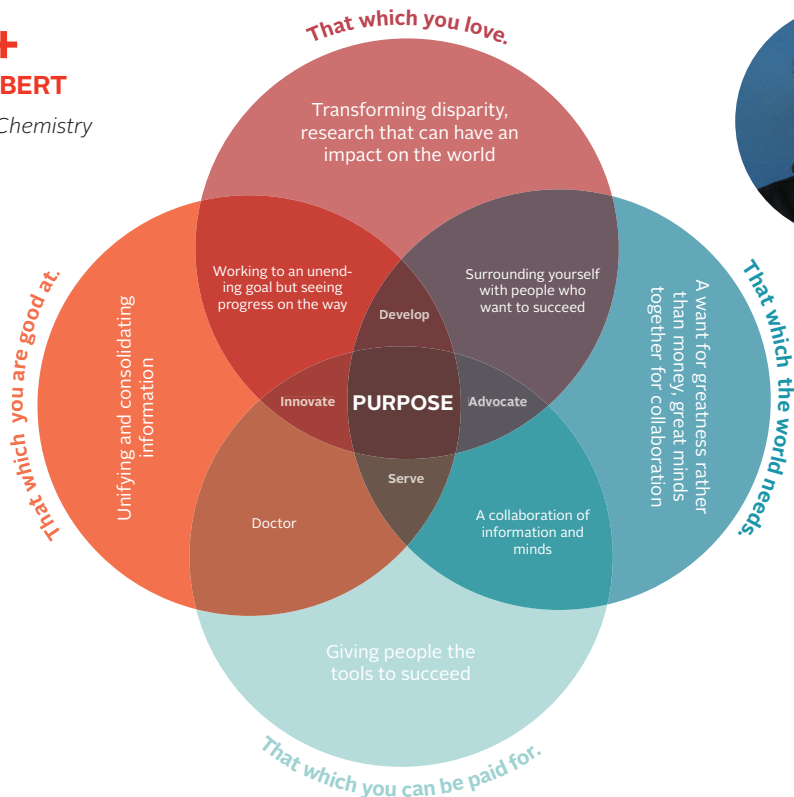
MY PURPOSE: Innovate the platform that informs the society about mental health by developing a multimedia movement for collaboration between advocates and practitioners — that advocates for public de-stigmatization to serve individuals suffering from mental health issues.

HOW DO WE REMOVE THE STIGMA FROM MENTAL HEALTH?

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MICHAEL GILBERT

Pharmaceutical Chemistry



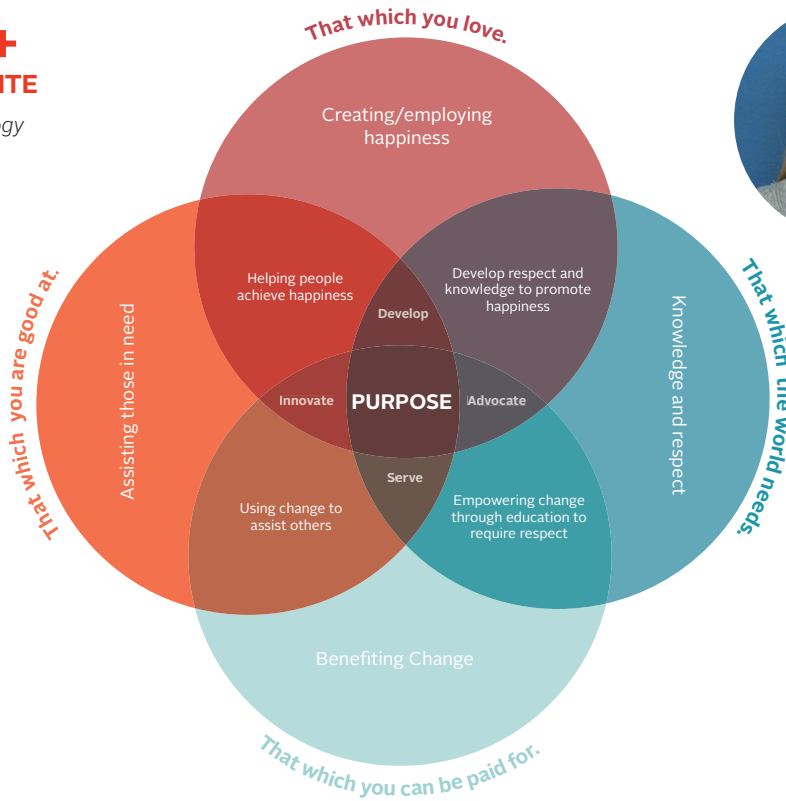
MY PURPOSE: To develop a restorative framework to serve the addicts, families, and healthcare providers, of the opioid epidemic — by advocating for holistic care that innovates post-emergency treatment.

WHAT IS THE MISSING PIECE TO THE PUZZLE IN POST-EMERGENCY TREATMENT?

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CHRISTA WHITE

Exercise Physiology



MY PURPOSE: I will advocate for a holistic view while serving patients through innovation of nutrition, fitness, and counseling in health care to develop nurturing environments.

HOW DO WE MAKE HEALTHCARE MORE FOCUSED ON THE PATIENT?

REHABILITATION

How do we revolutionize rehabilitation?

Transdisciplinary Equation



Brittany Kieffer

How do we remove the stigma from mental health?



Michael Gilbert

What is the missing piece to the puzzle in post-emergency treatment?



Christa White

How do we make healthcare more focused on the patient?

Collision



We are looking to develop a restorative framework for addicts by restoring independence in order to educate and help those suffering, along with those in the next generation.

First Lens "Solution"

A safe haven for addicts and recovering addicts to restore independence through full mental, physical, and emotional rehabilitation; a knowledge hub for halfway houses.



Humanity - centered Analogy



Tetris - solving and fitting the right pieces to avoid building gaps in the puzzle until it all crumbles.
Jenga - teaching people to build it up themselves; teach how to empower selves

Thought Exercise

Imagine if we could destigmatize mental health. How might we incorporate therapy into society? The impact could change society as a whole.



STEPPING STONES



OUR PURPOSE throughout this creation process was to restore independence through education to transform the future generations of healthcare. *Stepping Stones* was designed to shed a light on the compassion fatigue each healthcare professional experiences.





STEPPING STONES offers a unique way for incoming medical students to reignite their passion for healthcare while overcoming the strenuous process of becoming a doctor.



IACT SPINOFF: In August 2018, *Stepping Stones* was distributed to all first-year med students at Wright State's Boonshoft School of Medicine. Volumes 2 and 3 will be released in 2019.





University of Dayton

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