

## The Overcomer (P19046) Team Members Skills Repository

### Cesar Borges

- **Role:** Systems Engineer/ EDGE Coordinator
- **Major:** BS Biomedical Engineering, Minor in Mechanical Engineering
- **Preferences:** General hands on activities, CAD designing, prototyping, some programming.
- **Experience/Software:** Soldering, 3D printing, photography, Photoshop, Inventor, OnShape, Solidworks, Meshmixer, Matlab, a little bit of Python, very little but familiar with PLCs.
- **Previous Co-ops**
  - **Vermed-** Engineering coop (Summer 2016)- Created Validation, Installation and Verification protocols for pouch sealing machine. Improved the design and program of a release liner counter device used to guarantee the removal of all liners from a electrode vest. Helped correct CAD drawings of products and packaging instructions.
  - **Welch Allyn-** Engineering coop (Fall 2016)- Performed electrical tests in patient monitors of vital signs.
  - **Invacare-** Design Engineering coop (Spring and Summer 2018)- Worked with multiple sectors to complete engineering changes for sustaining existing products in the Post Acute Care team (long term care beds, tubs, lifts). Prototyped a backlit hand pendant.

### Kalie Lazarou

- **Role:** Project Manager
- **Major:** BS Industrial & Systems Engineering, ME Engineering Management
- **Preferences:** Project Management, General Coordination, Engineering of Systems.
- **Experience/Software:** Minitab, JMP, R, Visio, Microsoft Project, working knowledge of Solidworks and Python.
- **Previous Co-ops**
  - **GE Power-** Manufacturing Engineering (Summer & Fall 2016)- lean tool kitting, inventory tracking, and communication improvements on shop floor through kaizen (improvement) events.
  - **3M-** Project Engineer (Summer 2017 & 2018)- Project Management of cross functional teams for capital projects ranging from \$20K-\$500K in cost. Typical team involved Design Engineer, Facilities Engineer, Contractors, EHS, and Requestor of project. Learned 3M's project lifecycle and touched 30+ projects between my two summer experiences..

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### Mike Martin

- **Role:** Design Engineer
- **Major:** Mechanical Engineering
- **Preferences:** Design, CAD, manufacturing
- **Experience:** Creo, Solidworks, Excel, machining
- **Previous Co-ops**
  - **Honda** - Aluminum Die Casting manufacturing co-op
  - **Advanced Atomization Tech** - GE9X team co-op. Mainly design and ergonomics
  - **Alder Creek Beverages** - Manufacturing support co-op

### Karn Mishra

- **Current Major:** Industrial & Systems Engineering
- **Previous Major:** Economics & Statistics
- **Background:** Data Analytics, Operations Research
- **Preferences:** Anything data analytics or visualization related; statistical modeling
- **Software/Experience:** R, Excel, Minitab, JMP, Ampl, basic Solidworks, Visio, Microsoft Project
- **Coops/Previous Full-Time Experience:**
  - **IBM** - Business Analytics & Strategy Consultant - (2015-2016)
  - **Thermo Fisher** - Industrial Engineering Coop - (Summer 2017)
  - **Bosch** - Logistics Engineer - (Fall 2017 & Summer 2018)

### Rachel Mahoney

- **Major:** BS Biomedical Engineering
- **Preferences:** biomechanics, general hands on work, light programming
- **Experience/software:** Matlab, little labview/lab chart, minitab, excel
- **Previous co-ops:**
  - **GAIA, LLC (summer 2017)**
    - Summer start up program at RIT. The project was advancing smart apparel that measured biometrics to help in athletic training. It was a previous senior design team that continued into the summer and I helped out with getting the company going with more R&D. I did mainly the development of EMG sensors with electrically conductive silicone. I conducted many customer interviews with D1 athletic trainers and physical therapists.
  - **Rheonix (spring/summer 2018)**
    - I worked as a systems integration engineer so on the system level of our machine. I worked on the verification and validation to get our machine approved by the FDA, but besides that I did troubleshooting and

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developing new assays for the instrument. I wrote SOPs and various research reports.