Ignacio Córdova

268 South Euclid, Pittsburgh, PA, 15206 / C: (412)-294-7468 / ijcordov@gmail.com/ Portfolio: http://ignaciocordova.weebly.com/

| Educational Background | |
|--|---|
| Carnegie Mellon University (GPA: 4.0/4.0) Master of Science in Mechanical Engineering-Research Option Relevant Coursework: DIY Design & Fabrication, Engineering Computation, Applied FEA, | |
| Teaching Experience: TA for DIY Design & Fabrication (Fall 2017) and Mechatronic Design | gn (Spring 2018) |
| Pontificia Universidad Católica de Chile (GPA: 6.1/7.0) Bachelor of Science, Mechanical Engineering Relevant Coursework: Mechanical Design, Finite Elements Method, Computer-Aided Des Teaching Experience: TA for Solid Mechanics, Fluid Mechanics (5 semesters each) and M | |
| Academic Project Experience | |
| Carnegie Mellon University Research project for the Computational Engineering and Robotics Lab (CERLAB) Design, analysis and fabrication of an autonomous underwater robot for ship hull cleaning | Pittsburgh, PA Sept. 2017-May 2018 |
| Window Washer Robot Developing an autonomous robot that can clean a window following a path (Class: Mechatric | Jan. 2017-May 2018 onic Design) |
| Extracurricular Project Experience | |
| Carnegie Mellon University SpaceX Hyperloop Pod Competition • Lead Engineer for the 2018 SpaceX Hyperloop competition | Pittsburgh, PA Nov. 2016-May 2018 |
| NASA SBIR Project "CubeRover for Lunar Resource Site Evaluation" Contributed to the design and fabrication of a 2 kg lunar rover for the NASA SBIR program | <i>Aug. 2016-May 2018</i> (Company: Astrobotic Inc) |
| 🛍 Work Experience | |
| Gecko Robotics, Inc Mechanical Engineer II | Pittsburgh, PA June 2018-Present |
| Designed and analyzed components for sensor payload of a new fleet of inspection robots. Field testing of inspection robots | |
| • Designed and analyzed components for sensor payload of a new fleet of inspection robots. | Pittsburgh, PA May 2017-Aug. 2017 |
| Designed and analyzed components for sensor payload of a new fleet of inspection robots. Field testing of inspection robots Robotics Institute, Carnegie Mellon University Mechanical Engineer Intern Designed and analyzed the suspension system of a robot for uranium deposits inspection in Creation of CAM files in Mastercam for the fabrication of different parts of the robot. | <i>Pittsburgh, PA May 2017-Aug. 2017</i> nside pipes <i>Santiago, Chile Feb. 2014-July 2016</i> d product performance. f 3,000 units. China. |

Dictuc S.A

Mechatronic Engineer Intern

Designed and analyzed components for mechatronics projects for companies like Famae, Codelco, Chilectra, Komatsu and Sandvik, resulting in the fabrication of those components. Created a computational framework for a Fatigue Analysis of some components of a Chilean army truck, and producing a complete report for the client.

🖄 Skills

Application Software: Advanced-Matlab, Ansys, Solidworks, Autodesk Inventor, Mastercam. Intermediate-Adobe Illustrator, LS-DYNA, Autodesk Fusion 360.

Manufacturing: Advanced-Laser Cutting, CNC Milling, 3D Printing, Lathe Machining. Programming Languages: Advanced-C++, Python. Intermediate-Java, Arduino, Processing. Languages: English (Fluent), Spanish (Native Speaker).

🖗 Honors & Awards

Fulbright Program Scholarship. Partial scholarship to study at Carnegie Mellon University. Becas Chile Scholarship. Full tuition governmental scholarship to study at Carnegie Mellon University. Valedictorian. Mechanical Engineering Class of 2012 at the Pontificia Universidad Católica de Chile.

July 2016 July 2016 June 2012

Santiago, Chile

Dec 2011- June 2012