

# Christian Duessel

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Portfolio at ChristianDuessel.com

## Education

### MASSACHUSETTS INSTITUTE OF TECHNOLOGY | CLASS OF 2025

- Major: Materials Science and Engineering
- 2<sup>nd</sup> Major: Mechanical Engineering, CIR (Control, Instrumentation, and Robotics)
- GPA: 5.0/5.0

### MIT OPENCOURSEWARE

- Received degree credit for Physics I, Physics II, Intro-Biology I, Intro-Programming I, Multivariable Calculus

### ST. MARK'S SCHOOL OF TEXAS | CLASS OF 2020

- Cum Laude Society
- GPA: 4.5/4.0

## Experience

### ELECTRONIC MATERIALS RESEARCH GROUP | UNDERGRADUATE RESEARCHER | WINTER+SPRING 2024

- Assisted fabrication and testing of graded-index photonic chip-to-chip coupler; Used SEM, ellipsometry, profilometry, and AFM to characterize and develop PECVD, RIE, ICP-RIE, and UV/Ebeam Lithography processes

### ADAPTIVE VISION AND ROBOTICS | ENGINEERING INTERN | SUMMER 2023

- Assisted development, testing, and installation of palletizing cobot; consulted onsite at three manufacturing plants; designed HMI and defect pattern-recognition software for visual inspection of sheet material

### MOTUS LABS | MECHANICAL DESIGN ENGINEER INTERN | SUMMER 2022

- Designed, setup, and ran tests supporting the development of new gearbox design; designed a successive iteration and a smaller sized gearbox

### PATENT PENDING | 2021

- Invented: Device to Balance Application of Force. Application no. 17/382802 Filed: July 22, 2021

### MATH AND SCIENCE TUTOR | 2020-2021

- Tutored students grade 6-12 on pre-algebra through BC calculus, and physics + chemistry; built a book of regular customers and coordinated billing and scheduling

### MATHNASIUM | INSTRUCTOR | 2017-2020

- Instructed students grade 1-10 to develop skills spanning from numerical fluency to pre-calculus

## Activities

### MIT CREW | HEAVYWEIGHT ROWER | 2021-PRESENT

### PROJECT MANUS | MAKERSPACE MENTOR | 2023-PRESENT

## SKILLS

- Experience with Python, C, Assembly, Minispec (HDL), Matlab, Cadence, Intel 22nm layout, Fusion 360, Solidworks, NX, FEA, manual/CNC machining, MIG/TIG welding, GD&T, PLC programming