

Contact

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Address

4513 Staffordshire Ln
Charlotte, NC 28213

Education

UNC Charlotte

Bachelor Degree:

Mechanical Engineering

June 2028

Atkins Academic & Technology High School Degree

June 2024

Courses

Statics

Expertise

- Fusion 360
- OnShape
- Inventor
- 3DS Max
- Microstation V8i
- Creo
- Adobe Photoshop
- Adobe Illustrator
- Adobe Premiere Pro
- Adobe Acrobat Pro
- Adobe Indesign

Benjamin J. J. Hackl

Engineering Student

Engineering student versed in reviewing plans, researching and designing solutions, and implementing company procedures. Willingness to learn, follow instructions, and work cooperatively within team environments. Computer competencies include various CAD programs and Adobe Suite applications. Skilled multitasker with a superior work ethic and good teamwork, problem-solving, and organizational skills. Reliable and dedicated team player with a hardworking and resourceful approach.

Experience

CCI Makerspace Assistant

Jan 2026 - Jun 2028

UNC Charlotte | 9201 University City Blvd, Charlotte, NC 28223

- Supported students and staff in the safe operation of makerspace equipment, including 3D printers, laser cutters, CNC machines, and hand tools
- Assisted with project development by guiding users through CAD design, prototyping workflows, and fabrication techniques
- Maintained equipment readiness by performing routine calibration, troubleshooting, and basic repairs
- Enforced lab safety protocols and provided instruction on proper tool usage to reduce accidents and improve workspace organization
- Helped manage inventory of materials and supplies, tracking usage and restocking filament, wood, acrylic, and other fabrication resources

Freelance CAD Modeler

Jun 2024 - Aug 2025

Contracting

- Designed and developed 3D CAD models and technical drawings for clients using Fusion 360
- Collaborated with clients to translate sketches, concepts, and requirements into precise digital models and prototypes
- Produced detailed 2D technical drawings and assembly diagrams, ensuring manufacturing accuracy and compliance with standards
- Managed client relationships, contracts, and invoices as a self-employed professional

Gold Rush Robotics Member

Aug 2024 - Jun 2028

UNC Charlotte | 9201 University City Blvd, Charlotte, NC 28223

- **2026** Won second place in IEEE SoutheastCon
- Collaborated with a team of 15+ members to design and prototype components for competitive robotics projects
- Produced rapid prototypes using 3D printing, CNC machining, and laser cutting, accelerating design iterations
- Assisted in integrating CAD models with electrical and mechanical subsystems, ensuring fit and functionality

Technology Student Association (TSA) Member

Oct 2021 - Jul 2024

Atkins Academic and Tech High School | 3605 Old Greensboro Rd, Winston-Salem, NC 27101

- **2021-2022** Helped the CIM Team design their prototypes
- **2022-2023** Main builder on the System Control Technology Team
- **2023** Won first place at the TSA NC State Competition
- **2022-2023** Helped the Drone Team design and build parts
- **2022-2023** Helped other teams with 3D Designs needed for their competitions
- **2023-2024** Captained Drone Team, Board Game Design team, & System Control Technology team