Chase T. Gurcan

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EDUCATION

Clemson University, Greenville, SC **Current**

Master of science, Automotive Engineering with a concentration in autonomy, sensors, and perception

GPA: 3.41/4.0

Assumption College, Worcester, Massachusetts **May 2019**

Bachelor of Arts, Major: Applied Mathematics and Engineering Sciences

Dean's List **Spring 2016, Fall 2018, Spring 2019**

Merit Scholarship of 18,500$ Paired with 3,000$ Athletic Scholarship **Fall 2015-Spring 2019**

EXAMPLE COUSEWORK:

Machine Perception and Intelligence
Autonomous Driving Technologies
Autonomy: Science and Systems
Motion Planning

EXPERIENCE:

Standard Industrial Works, Bay Shore, NY **May 2018- August 2018**

Engineering Intern

- Engineered under supervision of project managers of large steel manufacturing company
- Inquired great experience and knowledge of a high paced manufacturing setting.
- Heavy focus on implementing 3D designing and manufacturing

SJS Construction, Bay Shore, NY **June 2014-August 2018**

Field Worker

- Designated any specific task and expected to finish within the provided time frame.
- Experienced with equipment and power tools.

ACTIVITIES:

Assumption College Varsity Soccer (NCAA Division II) **Fall 2015-Fall 2018**

• Participate in community service projects and team fundraising
• Devote 15 hours per week to practice, games, and travel while balancing a course load of 16 credits per semester

Clemson University Student Ambassador Board

• Elected member by the students as a chairperson in deciding school activities and events
• Has responsibilities to keep student body happy and satisfied with their experience at Clemson University

7 Hills Foundation

• Volunteer time to coach soccer for special needs children on the weekends.
• Grew up with a special needs brother so very experienced with dealing with special needs children.

SKILLS:

• Software: ROS, MATLAB, Linux, Siemens NX, C++, Microsoft Word, Excel, PowerPoint

RESEARCH:

Honda Electro Active Forming (EAF)/ Friction Element Welding(FEW):

• Research for Dr. Laine Mears of Clemson University (BMW Endowed Chair in Automotive Manufacturing) in partnership with Honda Motor Company working research and development of the future of manufacturing adhesion and forming

PROJECTS:

Arduino Autonomous Robot

• Designed, built, and coded an autonomous car using embedded controllers
• Implemented modern technologies such as Lane Keep Assist and Adaptive Cruise Control
• Utilized Kalman filtering and other signal processing methods for optimized sensor readings

TurtleBot 3 Burger

• Used ROS, C++ and python to code a TurtleBot 3 Burger to autonomously navigate
• Utilized computer-aided engineering analysis such as SLAM, LIDAR, obstacle avoidance, and lane detection and keeping