## GENERAL ASSEMBLY OF NORTH CAROLINA SESSION 2017

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## HOUSE BILL 469\*

## Committee Substitute Favorable 4/24/17 Senate Transportation Committee Substitute Adopted 6/14/17 Senate Judiciary Committee Substitute Adopted 6/20/17

	Short Title: Re	egulation of Fully Autonomous Vehicles. (Public)
	Sponsors:	
	Referred to:	
		March 27, 2017
l		A BILL TO BE ENTITLED
2 3		REGULATE THE OPERATION OF FULLY AUTONOMOUS MOTOR ON THE PUBLIC HIGHWAYS OF THIS STATE.
1		embly of North Carolina enacts:
		<b>TON 1.</b> Chapter 20 of the General Statutes is amended by adding a new
	Article to read:	
		" <u>Article 18.</u>
		"Regulation of Fully Autonomous Vehicles.
	" <u>§ 20-400. Defir</u>	
		g definitions apply in this Article:
	<u>(1)</u>	Automated driving system The hardware and software that are
		collectively capable of performing the entire dynamic driving task on a
		sustained basis, regardless of whether it is operating within a limited or
	( <b>2</b> )	<u>unlimited operational design domain.</u>
	<u>(2)</u>	<u>Dynamic driving task. – All of the real-time operational and tactical control</u> functions required to operate a motor vehicle in motion or which has the
		engine running, such as:
		<u>a.</u> <u>Lateral vehicle motion control via steering.</u>
		b. Longitudinal motion control via acceleration and deceleration.
		c. Monitoring the driving environment via object and event detection,
		recognition, classification, and response preparation.
		d. Object and event response execution.
		e. Maneuver planning.
		e.Maneuver planning.f.Enhancing conspicuity via lighting, signaling, and gesturing.
	<u>(3)</u>	Fully autonomous vehicle A motor vehicle equipped with an automated
		driving system that will not at any time require an occupant to perform any
		portion of the dynamic driving task when the automated driving system is
		engaged. If equipment that allows an occupant to perform any portion of the
		dynamic driving task is installed, it must be stowed or made unusable in
		such a manner that an occupant cannot assume control of the vehicle when
		the automated driving system is engaged.
	<u>(4)</u>	Minimal risk condition. – An operating mode in which a fully autonomous
		vehicle with the automated driving system engaged achieves a reasonably
		safe state, bringing the vehicle to a complete stop, upon experiencing a



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General Asser	nbly Of North Carolina	Session 2017
	failure of the automatic driving system that renders th	e vehicle unable to
	perform any portion of the dynamic driving task.	<u>e veniere unuere to</u>
(5)	<u>Operator. – For the purposes of this Article, is a per</u>	erson as defined in
<u>(5)</u>	G.S. 20-4.01. An operator does not include an occup	
	autonomous vehicle performing solely strategic driving f	
<u>(6)</u>	<u>Operational design domain. – Specific conditions under</u>	
<u></u>	driving system is limited to effectively operate, su	
	limitations, roadway types, speed range, and environmen	
<u>(7)</u>	Strategic driving functions. – Control of navigational par	
	scheduling or the selection of destinations and wayp	
	include any portion of the dynamic driving task.	
"§ 20-401. Re	gulation of fully autonomous vehicles.	
	ver's License Not Required. – Notwithstanding the provisio	ns of G.S. 20-7 and
	he operator of a fully autonomous vehicle with the autom	
	required to be licensed to operate a motor vehicle.	
	nicle Registration Card in Vehicle. – For a fully autom	omous vehicle, the
	G.S. 20-49(4) and G.S. 20-57(c) are satisfied if the vehicle re	
the vehicle, ph	systically or electronically, and readily available to be inspec	ted by an officer or
inspector.		
(c) Par	ent or Legal Guardian Responsible for Certain Violations. –	The parent or legal
guardian of a n	ninor is responsible for a violation of G.S. 20-135.2B, the pro-	phibition on children
in an open bed	of a pickup, or G.S. 20-137.1, the child restraint law, if the	violation occurs in a
fully autonomo	bus vehicle.	
<u>(c1)</u> <u>Min</u>	nimum Age for Unsupervised Minors in Fully Autonomou	us Vehicles. – It is
unlawful for a	ny parent or legal guardian of a person less than 12 years of	of age to knowingly
permit that per	rson to occupy a fully autonomous vehicle in motion or w	hich has the engine
running unless	the person is under the supervision of a person 18 years of as	<u>ge or older.</u>
<u>(d)</u> <u>Reg</u>	gistered Owner Responsible for Moving Violations The pe	rson in whose name
	omous vehicle is registered is responsible for a violation of	±
considered a m	noving violation, if the violation involves a fully autonomous	vehicle.
	attended Vehicle A vehicle shall not be considered una	
	any other provision of Chapter 20 of the General Statutes m	erely because it is a
•	ous vehicle with the automated driving system engaged.	
	ty to Stop in the Event of a Crash If all of the following	-
	utonomous vehicle is involved in a crash, then the provisior	
	nd subsection (e) of G.S. 20-166 and subsections (a) and (	
shall be consid	ered satisfied, and no violation of those provisions shall be cl	-
<u>(1)</u>	The vehicle or the operator of the vehicle promptly cont	tacts the appropriate
	law enforcement agency to report the crash.	
<u>(2)</u>	The vehicle or operator of the vehicle promptly calls for	medical assistance,
	<u>if appropriate.</u>	
<u>(3)</u>	For a reportable crash, the vehicle remains at the scen	
	vehicle registration and insurance information is prov	±
	affected by the crash and a law enforcement officer auth	orizes the vehicle to
	be removed.	
<u>(4)</u>	For a nonreportable crash, the vehicle remains at the	
	immediate vicinity of the crash until vehicle registra	
	information is provided to the parties affected by the cras	
	eration. – A person may operate a fully autonomous vehicle	if the vehicle meets
all of the follow	wing requirements:	

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	General Assembly Of North Carolina Session 2017				
1	<u>(9)</u>	A representative of the Attorney General's Office, designated by the			
2		Attorney General, who is familiar with motor vehicle law.			
3	<u>(10)</u>	A representative of local law enforcement, designated by the Secretary of			
4		Transportation.			
5	<u>(11)</u>	A representative of the trucking industry, designated by the North Carolina			
6		Trucking Association.			
7	<u>(12)</u>	A planner from an urban area, designated by the North Carolina League of			
8		Municipalities.			
9	<u>(13)</u>	A planner from a rural area, designated by the North Carolina Association of			
10		County Commissioners.			
11	<u>(14)</u>	Two members of the North Carolina Senate, designated by the President Pro			
12		Tempore of the Senate.			
13	<u>(15)</u>	Two members of the North Carolina House of Representatives, designated			
14		by the Speaker of the House.			
15		s. – The Committee shall meet regularly, and at a minimum four times a year,			
16	to consider matters relevant to fully autonomous vehicle technology, review State motor				
17	vehicle law as they relate to the deployment of fully autonomous vehicles onto the State				
18	highway system and municipal streets, make recommendations concerning the testing of fully				
19	autonomous vehicles, identify and make recommendations for Department of Transportation				
20	traffic rules and ordinances, and make recommendations to the General Assembly on any				
21	needed changes to State law.				
22		- The Department of Transportation shall provide staff and meeting space,			
23	from reasonably available resources, to the Committee."				
24 25	<b>SECTION 2.</b> This act becomes effective December 1, 2017, and applies to				
	offenses committed on or after that date. Prosecutions for offenses committed before the				
26 27	effective date of this act are not abated or affected by this act, and the statutes that would be applicable but for this act remain applicable to those prosecutions.				
21	applicable but for	i uns act remain applicable to mose prosecutions.			